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OTWITHSTANDING the fact that the weather was dark and threatening during the first four days of the International, there was a very large attendance of live stock men and farmers from all parts of the country who came to see this greatest of live stock And they were well rewarded for their enterprise, as the show was everywhere conceded to be the best in the history of the International, not only in the number of entries, but as well in the average quality of the exhibits.

While there was no abatement of the usual interest in the individual fat classes and the breeding classes, there was a noticeably increased interest in the carlot classes on the part of the crowd. This was perhaps in, part due to the apparent fact that a larger proportion of the patrons of the show were stockmen and farmers than has ever before been the case and would indicate that they are carefully studying the feeding situation, especially as related to cattle. Veteran feeders were to be found everywhere among the crowd, while conversation with many interested students of the carlot classes indicated that they were carefully studying the exhibits at first hand with a view of engaging in the cattle feeding business for the first time. The writer is gratified to report that among the latter class he interviewed several who have invested in considerable blocks of northern Michigan land, with a view of engaging in the feeding business. Thus this year's International will doubtless have more beneficial effect upon Michigan's live stock industry, as well as that of the entire country, than has ever before been noted, since there is no place where the important factors of type and quality and finish can be so effectively studied as in the exhibit pens and sale rings of the carlot classes at the International.

In the carlot classes the Angus breed previous show, notwithstanding the fact winners in past years. The grand championship in this class was won by an exload of "baby beeves" ceptionally fine

Internation

have entered. The grand champions were younger cattle are the favorites with the judges, other factors in the competition of the champions by ages, which are alone eligible for competition in the grand championship class, the closest competitors for the premier honor were twoyear-olds of the same breed and exhibited by the same firm, and they were very worthy competitors indeed. Also, the champions in the three-yes were Angus steers, exhibited by V. M. Scott, of Paris, Ill., and were typical of the best in three-year-old form. Thus no strife of breeds and little of breeders feeders could possibly have entered into this competition, and the result holds more than an ordinary lesson for the cattle feeders of the country. When "baby beef" wins in competition of this kind it is certainly sufficient evidence that it can hold its own in the sale pen with any kind, and with the additional fact that cheaper gains can be made on the younger animals the economic conclusion should be easily reached by the cattle feeder who is a student of the economic phases of the feeding business which constitute the greatest factor in the successful development and prosecution of this business on any farm.

In this connection the method of handwon even greater laurels than at any ling these great cattle from start to finish previous show, notwithstanding the fact will be of interest. They were calved in that they have been such consistent March, April and May, 1912. They ran with their dams on blue grass pasture during the summer and were weaned early in November, at which time they Iowa, who also won the premier honor in here is an important-factor in the mak-

credit the remarkable record of having weaning process they sustained no shock won firsts or championships at eleven In- or check in their growth and never ternational shows in classes which they mourned the change or shrunk a pound. This desirable end was accomplished by an exceedingly mellow, well finished and constructing a "creep" in the pasture, even load of yearlings which won the through which the calves had access honor over such excellent competitors as during the summer to a pen in which to clearly indicate, as did most of the they were supplied a grain ration of shellawards in this year's show, that the ed corn and oats mixed, which grain they early learned to like and eat with a relish. Liberal feeding of this grain when being equal. This conclusion was given they were weaned kept them just as well the geater emphasis from the fact that nourished and satisfied after separation from their dams as when they were sucking them, and they kept right on growing. During the winter they were gradually accustomed to a heavier ration until they were got on "full feed" of homegrown grains, the only supplementary feed purchased being molasses. This feed is deemed of especial value by the veteran feeders who won this coveted honor for the reason that it causes the cattle to drink more water than they otherwise more rapid gains. Another interesting fact in connection with the feeding of these cattle is that oat hay was used as clover hay ordinarily would be as a factor in the roughage ration, the clover Iowa last year, and naturally oat hay has the unqualified indorsement of these experienced feeders as a substitute for clover hay when the latter is not available. They also place emphasis on the factor of variety in the ration for best results with feeding cattle, as well as inducing them to drink plenty of water. The grand champions averaged 1.130

lbs. in weight, and were purchased in the sale ring at \$13.25 per cwt. by the representative of a local hotel. They brought at this figure \$149.72 each, or a total of \$2,245.87, after having won a total of \$855 in prizes. This price, while under the record of last year, was considered satisfactory and relatively higher as comparthe grand champions of the 1912 show, this class in 1911 and who have to their ing of their enviable record, as in this also Angus yearlings, brought \$14, the

top price in the open market at that time was \$11.25 per cwt. as compared with a top limit of \$9.60 for the week this year. This is a gratifying comparison, since it represented the approximate value of these cattle in the open market, as evidenced by the sale of the White exhibit of Angus yearlings at \$13 per cwt., while the Escher & Ryan two-year-old Angus steers which won the reserve championship sold at \$11.80 per cwt., and Scott's first-prize three-year-olds, also contenders for the grand championship brought but \$10 per cwt., thus again demonstrating the market superiority of baby beef.

Notwithstanding the sweeping victory of the Angus breed in the fat class championships it would be unjust not to mention the great showing made by the other beef breeds in the carlot exhibits. While none could criticize the excellent work of the judges, the patrons of the show were divided in their admiration of the winners and the magnificent exhibits of Shorthorns, Herefords and Galloways, very many of which would have been not only easy but notable winners in any other ring. While no one who saw with an appreciating eye the wonderful qualwould and that this causes them to make ity of the winners would say a word derogatory to them, the best informed observers could not do less than divide the credit for the honors between the breed and the skilled and experienced breeders and feeders who exhibited them, and seeding having failed in that portion of while all patrons of the Angus breed may well be gratified and proud of the victory scored by their breed at this year's International, patrons of the other beef breeds need feel no chagrin or discouragement at the showing made by their favorites at this greatest of live stock shows in which utility is the final arbiter.

As a matter of fact, although the Angus breed carried off all championship honors in the carlot fat classes, the Herefords beat them out in the number of prizes won. In the yearling class the blacks won first and second prizes, the third and fourth going to Herefords. In the two-year-old class an Angus entry won first while the second and third prizes went to Herefords and fourth to exhibited by Escher & Ryan, of Irwin, averaged 450 lbs. in weight. And right ed with the general market, since while a fine load of Angus-Hereford crossbred This pen attracted much attencattle.

(Continued on page 532).



Again the Grand Champion Carload of Fat Steers at the International Live Stock Exposition were Yearling Angus Baby Beeves.

What is Profit in Farming.

In Lillie Farmstead Notes in the issue of November 15, pages 438-439, of the Aichigan Farmer, Mr. Lillie says: "It has not been a profitable year in this section for farming." * * * "Last year there was an actual loss in farming." Considering that Mr. Lillie owns a farm of adequiate size, according to farm management experts, and considering that he is perhaps Michigan's leading agriculturist, is this not discouraging testimony and is it not sufficient to make most thinking young men desire more to secure service with some corporation or the public service—jobs paying salaries, with a chance of promotion and perhaps a civil pension coming later, rather than taking up the more or less isolated life of a farmer, with uncertain remuneration and no chance of pension, but only a prospect of being a heavy contributor to other fellows' pensions, and usually not much vacation. In order that we may more definitely get at this question of profits in farming in Michigan, will you not have Mr. Lillie give more definite figures of his farm operations, giving acreage, inventory, expense account, and receipts, classified as to source, as crops, dairy, etc. Also have him explain what he means by profit in farming.

St. Joseph Co.

L. P. T.

how much profit is there in farming iness proposition it ought to be charged at the present time?" Most of the so- against the business, as it would be in called profit in farming is simply wages the manufacture of automobiles or boots earned by the farmer and his family. If and shoes, and why shouldn't it be in a man worked in a factory or automobile farming? shop he would get wages for his labor. And so with the farmer. He should get wages for the manual labor he performs. The manufacturer first deducts the labor and other expenses and then he figures the interest on the capital invested. The capital itself ought to earn this. And over and above that, if any, is profit. Farming ought to be figured in the same way. For instance, in my own case. I figure that my farm and equipment is worth I have got 289 acres of land, \$30,000. good buildings and plenty of them, I am well supplied with tools, and have a heavy investment in live stock. It is really worth more than that, but I put it down for that because you must put it down for something if you are going to keep books and have an inventory. Now if I could turn this property into money and get \$30,000 and put that out at interest I would have no trouble in putting it out at six per cent. I could invest it in bonds or in real estate. There are lots of opportunities where one can invest capital and get it to earn six per cent. Now why shouldn't it be required to earn six per cent in farming, and from a business standpoint and as a business proposition have I any right to say that if I have reduced ten per cent every year for wear. rior kind of highway. Owing to the fact \$1,800 over and above the actual expenses of the farm that there is that much profit in farming? My \$30.000 investment has two years. We ought not to figure the terial is shipped in, and the cost for each then simply earned six per cent or what profits in farming for less than a five- mile of road is around four thousand dolit would earn in any other investment, and I ought to have over the six per cent interest on the investment to get any profit. I will admit that my case in farming is very much different from the ordinary farmer. I have outside business that takes a lot of my time and energy and I don't pretend to do manual labor on the farm, but I do pretend to give it super-What that supervision is worth I do not know. I am satisfied that if I would give up writing for the Michigan Farmer, for instance, and several other farm as a business proposition if he can things that I do, and settle down on the farm, get up at five o'clock in the morning and work with the men as I used to do, that I could save about two men's Now I would earn that much money, that would be what I would get for labor. If I was sufficiently strong to change. this labor and the supervision also, which would take part of the night, then F., I stated that last year there was an I ought to have pay for that. But, neverteless, the \$30,000 that I have got invested ought to earn me six per cent interest over and above my labor. I would figure that if it was doing that and I only got \$1,800 over and above expenses, that I got little or nothing for my labor on the because my capital would earn \$1,800 if I had it out of the farm and in-

Two or three years ago I told Editor to demonstrate that farming is a profita-ble business. You remember that he wrote an editorial on this one time, so that the idea made an impression upon and won't be until next May, I am confihim, and he practically agreed that the dent in my own mind that there is very average farmer didn't get interest on his little actual profit. But it must be uninvestment and good wages for the labor derstood in my farming that every bit of ting that he and his family performed, and I labor has to be paid for. I have no grow- need it bad enough. It is true that the Mother. She was their constant compandon't believe he does. But you say you ing boys, nobody to help me. Everything owners of automobiles profit by these imknow of men who are getting ahead on must depend upon hired men, and when proved highways, but it is also true they the farm. Yes! So do I. I don't calculate I am running behind at all. But these men who are getting ahead are men and then make interest on the investwho are physically strong, and mentally also, and they do a whole lot of hard work, and that is figured as profit in farming. If those same men worked for some manufacturer where they could use their strength and their energy, they would get mighty good wages also. Not Kindly advise as to best method of only that, but the farmer's family assists eradicating quack grass. Subscriber. materially. If he has got growing children they many times earn good wages. Many a boy 15 or 16 years old takes the

vested in something else.

T is a fair and interesting question to much clear gain, and really it is. But ask, "What is profit in farming, or when you are figuring farming as a busagainst the business, as it would be in

> Of course, an increase in live stock, to be taken into consideration in the profits of farming. Certainly if a man raises a bunch of nice calves or colts or pigs or anything of that sort and doesn't dispose of them so that he turns them into cash, they are really so much increase in the inventory of the farm and will figure as profit in farming, provided you have made wages for your labor, interest on the investment, etc., besides. But where one has to build a new fence or where one has to repair an old fence, or repair buildings, or anything of that sort, he can't figure that as profit, because that is current expense. Those repairs will have to be made again in the course of a few years. And that is an item of expense just as much as the hired man's wages, we might say, and is not profit. Also the natural wear of the tools should be taken into consideration, because they wear out. It is none too much to charge off ten per cent every year for the actual wear of the tools. If one buys new tools, of course they must be added to the inventory, but the real value of and in some cases, practically whole farm tools in the inventory ought to be townships possess nothing but this supe-

> Then, again, it is not fair to figure farming as a business for one year or for year average, and it would be better and fairer to figure it on a ten-year average. A renter knows that it does not pay to and crushed in the immediate locality. In rent a farm for one year, because it may be a bad year and he may lose out. He Ohio man was unreservedly and enthusimay be worse off at the end of the year than he was when he started. Everything may be against him. He knows that it doesn't hardly pay to rent a farm for two years, because we may have two poor years in succession, although we rarely do. But no man should rent a avoid it, for less than five years, and then if he takes the average for five years it will be a fair average for the profits in farming. But a five-year average is not as good as a ten-year average. Seasons change and this makes the farmer's profit

Now in my notes referred to by L. P. actual loss in farming, I meant, of course, on my farm. We nearly drowned out. think those that kept track of Lillie Farmstead Notes read my wail of woe more than once. Now this year we did better, but it was extremely dry. If we could have had one or two good rains in the summer the whole thing would have changed. We are short on forage crops. No crops yielded as they ought to, because there wasn't moisture enough. Now Waterbury that I was interested in trying the probability is that next year it will be better. It always has been that way, and while I cannot tell this year about the profit, because it isn't figured up yet. I pay the labor bill, which comes to over \$3,000 every year, and the other expenses, ment, the actual profits in farming dwindle, especially in bad years.

COLON C. LILLIE.

ERADICATING QUACK GRASS.

it from making any appreciable growth movement which will benefit them most in this issue you will find some excellent place of a hired man, and this is not fig- above ground, as this will starve the of all. The man who sighs for the good clubbing offers that will save you money ured in. What he earns is figured as so roots and finally kill them. It has been old days when the road tax was worked on your reading matter.

found by investigation, however, that the out under no system at all, is looking underground stems or root stocks of quack grass have different habits of ever. The memory of those newly workgrowth under different conditions, being ed roads, however, piled high in the middeepest rooted and most vigorous in cul- dle with earth and sod for half the sumtivated fields. In meadows and pastures years these underground stems are found to be very much closer to the surface, practically all of them occurring in the first two or three inches of surface soil. When in this condition, if the sod is plowed in the midsummer as shallow as practical, say about three inches deep. and kept well worked with a disk harrow until fall, this sod will be cut into small which will be so thoroughly sections, dried out that the roots will be practically all killed. Then if this field is again plowed at a good depth in the spring for cultivated crop, there will be very little if any, quack grass make its appearance in the crop. This is probably the least expensive method of ridding the land of .this pest, but as above noted, the same results can be accomplished by any methperhaps an increase in soil fertility, ought od which will prevent the growth of the grass above ground for a sufficient length of time to starve the roots.

A WORD FOR GOOD ROADS.

A few months ago the writer contributed to these columns, an article on the crushed stone roads of Fayette township. In view of the facts that such roads are comparatively unknown in the country districts of Michigan and that many farmers oppose the plan on the grounds of expense, the publication of a recent interview with a prominent Ohio farmer, would seem pertinent. No attempt will be made to quote verbatim, the conversation in question, but simply to disclose the fundamental facts.

In way of explanation, let it be said that the Ohio man is a well-to-do farmer of Paulding county. In the matter good roads this county is wonderfully All of the principal roads progressive. of the county are made of crushed stone, that stone for the work cannot be obtained in Paulding county, the crushed malars-nearly twice as much as in Fayette township where the stone are procured spite of this disadvantage, however, the astically in favor of the stone roads.

In discussing the good roads question, the man from Paulding county said: "Without a doubt our new crushed stone roads have done much to increase the value of our farms. Land now sells in my neighborhood for from \$150 to \$225 per acre. If a farm happens to be located on a cross road not yet rebuilt, the price of the land is much lower, for people have learned that no kind of dirt road is equal to stone for the drawing of heavy loads of farm produce. I would hesitate for a long time before selling my farm at any price, if it were to mean removal to a locality not yet improved by the construction of stone roads. I have helped to construct these roads in my own township, and am now reaping the advantages. I feel that what I have spent in time and money, is returning to me in increased value of my farm and in better traveling facilities. When I wish to market my produce, it is done with ease and expedition unknown in former days."

In a nutshell, the foregoing is the expression of a farmer living in a section saw around him, in a very unlearned noted for its good roads. It would be well for Michigan farmers who oppose the system to ponder over this testimony which is the result of mature experience. Many Michigan roads may not need im- so ignorant that he did not know that his provement so much as did the heavy father's remark was not intended for a roads of Paulding county, but it is put- compliment. the case mildly are helping to pay for them. It is true, too, that in the last analysis the greatest benefit goes to the farmer. It is he who farm today who is held there by Mothdraws the heavy loads to market, and it is his property which is raised in value by the road improvement. For farmers to oppose these improvements, is to say the least, an exceedingly short-sighted policy. Better roads—good roads— are surely coming in Michigan. The movement is wide-spread and inevitable. Let send your renewal at once. Send \$2.00 Quack grass can be eradicated by any the farmers of each community put their for five years, \$1.25 for three years, \$1.00 method of clean culture which prevents shoulders to the wheel and help along a for two years or 50 cents for one year. Or

back to a condition that has passed former, will long linger in the minds of those have been in grass for several who were compelled to endure the hardship of traveling over them. The good roads movement is practical, progressive, economical. Let us lend a hand.

J. A. KAISER. Hillsdale Co.

NOTES FROM OGEMAW COUNTY.

At the Farmers' Institute held at West Branch, December 2-3, the 36 students of agriculture in the high school attended in a body. Also the county normal class of The farmers are generally in a cheerful frame of mind. A mortgage for \$5,500 has just been placed to secure a loan of like amount on an 80-acre farm. As far as your correspondent could learn this is the highest valuation ever given an 80acre farm by money loaners in this

A great many potatoes have been shipped from this place this year, 50 cents being the prevailing price.

Beans are bringing \$1.70 per bu. pea business, which once flourished here, seems to be much on the wane. Money loaned at the banks to farmers at seven per cent. County just voted to bond for \$75,000 to build roads. Majority, 80 in the vote of 500.-A. B. C.

WHY BOYS LEAVE THE FARM.

Boys should have the greatest freedom to select a lifework for themselves. They may have talents which favor them for some particular calling. If they have talents they will discover them such about as soon as anybody. I well remember a time when a playmate and myself were speculating in futures. I preferred to be a farmer. He said that he wanted to be a gunsmith. Raising his hands up before his face to imitate the holding of a gun, he said he believed he could make a gun that would shoot right to the mark. He proved in after life that he did not overestimate his ability in that respect. A father should strive to bring about such a state of feeling between himself and son that the son can leave home without embarrassment, and can come back without embarrassment. Should he be determined to go, let him know that he has your well-wishes. After he has seen some of the world, and found out, contrary to his expectations, that everything which his hand touches does not turn to gold, he may be glad to get back onto father's farm. Should he expect to meet with a cold or indifferent reception when he proposes to come back, he probably will not make the proposal

The most effective work can be done with children when they are quite young. They have everything to learn and they look upon their parents as the possessor of great wisdom and knowledge. Get their confidence and they are easily led. I feel sorry for the man or woman who cannot be interested and amused at the development of intelligence in a child. Get interested in their peculiar idea of things which they see around them. well remember when a playmate had a spot picked out on the back part of his father's farm where he was going to build a store and a tavern. I once knew a little girl who, after studying up the situation around home, said to her mother, "We could get along without pa all right, only we need him to work." A little boy was once talking about things which he manner, and his father said to his mother, "Doesn't that boy know better than to talk in that way?" The boy was unlearned in many things but he was not

ion during the years when their minds were developing, and they have received impressions which will influence their whole lives. Many a man is on the old er's influence.

Branch Co. O. A. VANDERBILT.

IMPORTANT.

If your subscription to the Michigan Farmer expires soon it is important to

Why We Should Rotate Crops—No. 2. regular systems of rotation followed, prosperity would be more universal on the

in regard to the desires of the pioneer the container and it grew to perfection. farmers of this country, we would be of the most of them has been to follow custom to remain in a portion of country only as long as the land will profitably portunity to free itself of the poison.

produce their favorite crop and then Some contend that the elements reproduce their favorite crop and then move to newer portions of country. Such practiced, until according to the governis raised by the single crop system.

Agriculturists and political economists

have sounded the notes of warning, and acid and potash. Oats do not succeed yet the process of what is called "soil well when sown repeatedly on the same very best corn. The object in holding this robbing" is being carried on. In Minnesota and the Dakotas we have what some than the other crops, and it takes almost in corn club work throughout the county, have pleased to call them, the "profes- as much nitrogen for a single crop as in view of organizing corn clubs in this sional wheat raisers," and others call both the wheat and oats, and more than county next year and also to ascertain the them "soil skimmers." In the corn belt as much as both of the phosphoric acid, kind of corn and the quality which is genwhere nature bestowed an abundance of and almost twice as much potash as both. vegetable matter on the surface, and the It is not always the lack of plant food in the number of samples which we receivprairies are a vast expanse of sediment the soil that causes a diminution in the ed I believe we can rightly assume that and decaying organic matte, there we have the corn growers who, for a life time the roots of the preceding crop of the ty is the Yellow Dent, the White Dent have but tickled the surface of the ground with the plow, planted the seed, and the sugar beets, leave a poison in the soil Flint varieties third and the Strawberry whole expanse of country has laughed with abundant harvests. The people of the whole country have been blessed by the abundant crops of corn, for it has been cheap and could be utilized for feed at every point reached by our railroad

But the end of single crop raising seems to be near. In the Dakotas, to use the common expression, the soil has hardened, and it requires much more motive power to turn up and loosen the soil than formerly. The crops have diminished and they resort to the old plan spoken of in Holy Writ, "let the land rest." The decaying vegetable matter near the surface in the soil is nearly used up, and it refuses to bring forth abundant crops. The large quantities of nitrogen that was present in the virgin soil, which neutralized the poisonous substances excreted by the wheat roots, is nearly exhausted, and there are indications of a feeble rather than a vigorous growth of the wheat plants. Similar conditions pre-Michigan. The potent remedies are raising on such soils, June clover and alfalfa. keeping stock and returning the manure to the land, regular system of crop rotation, and careful methods of cultivation.

Many of the farmers in the corn belt have adopted a system of diversified farming, making the keeping of live stock or dairying the leading branch of their business. Keeping of live stock calls for the clovers as a forage feed, which necessitates a regular system of rotation of crops. Instead of the desolate looking condition that is an accompaniment of one-crop farming, buildings have been erected and a general air of comfort and prosperity prevails.

When one-crop raising prevails there is a condition in the soil similar to that of plan of stuffing the soil with organic matfatigue with men. After several hours of ter is consistently followed. hard labor there is in the circulatory system an accumulation of torn down or worn out tissues, which has accumulated faster than the phagocyte corpuscles, or scavengers of the blood, could clear out. Rest must follow, and it is during the quantity of phosphate salts. hours of sleep that this waste matter in the cutaneous system and the renal se-

have placed in a wire container dirt rich dant, then an acid plant food can be used in plant foods, and put it in the surface of the ground. This gave the dirt in the container precisely the same conditions that prevailed in the ground surrounding the proper balance between the proper balan it. They planted wheat and it grew with different experiment stations, and the reusual vigor. After growing a few weeks sults crystalized by the Federal Bureau they pulled it up and planted in the con- of Soils, tend to prove the wisdom of rotainer more wheat, and it made only a sickly growth.

the container and they grew well. After can be well fed were more general, and

If we were to state the absolute facts the potatoes wheat was again planted in

The conclusion arrived at by the Unicompelled to say that the inherent desire ted States Bureau of Soils, is, that the excreta of plant roots is poison to the one crop farming. Some of them are good plants of the same kind. After producing judges of land suited to raising different one kind of a crop the soil needs rest, or leading crops. They look for certain in- a change of occupation. In the case of dications and characteristics in soil, and wheat, farmers give the land a rest by say that it is good wheat land, or good, summer fallowing, after which the wheat corn land, as the case may be. It is their grows abundantly. Lime, freezing and working the ground has given it an op-

quired for the different crops are so difa course has been pursued, and is being ferent that after one crop has taken its needs, another kind of a crop can be ment reports, more than three-fourths of utilized to take its needs, and so on. But the parents did not want their children the wheat consumed in the United States according to the chemical analysis, a crop of wheat and oats take nearly the which is injurious to and retards the Dent fourth. All of the corn which was growth of some other kinds of crops.

> the German investigators who had dis-judging from the corn received there is covered the toxin in man and animals a great deal grown in St. Clair county which they call the "germ of fatigue," which is badly mixed and should be the Federal Bureau of Soils set the experts at work to see if it is possible to know what, if anything, constitute the germ of fatigue in sterile soils. Great about 400 samples of corn we decided that numbers of samples of sterile soil was there were only 50 samples which deservgathered from all parts of the country. Both sterile and fertile portions of soil sterile soils examined the compound di- of Flint corn grown. hydroxystearic acid was present, but was not present in the fertile soils.

the germ of fatigue in soils or not, the ternoon he gave a very interesting talk experts do not seem to be ready to state on the advisability of securing good seed positively, but they did set themselves corn, to the farmers. about the task of finding something to Liberal prizes were offered and the dissipate or neutralize it. The element children took a great deal of interest in nitrogen was found to be precisely what is needed to prevent the gathering of the vail with some of the heavy clay lands of dihydroxystearic acid and if applied very promptly neutralizes it. If the farmers practice applying barnyard manure, and and a number who had not been very fausing clover in the rotation, they need never fear the approach of this germ of soil fatigue. If from abuse of the soil by constant cropping without applying barnyard manure, or rotating with clover the found in the manure and clover. There has been, and probably will be, cases in the future, where the nitrogen being so thoroughly cropped out of the soil, that barnyard manure or nitrogen in some The prize winners in the various classes commercial form must be resorted to. When it is possible to secure a growth of clover, the task of building up fertility in the soil is not a difficult one, if the

The Federal Bureau of soils found another substance in some sterile soils which they call cumerin, which is not neutralized by nitrogen or potash, but is readily dissipated by the use of a small

The results obtained in both cases are the blood is disposed of largely through precisely what those who believe that the capabilities of plants to gather their food cretions. After a night's sleep, the cir- in the soil, depends upon the balance of culatory system having been cleared of the mineral plant foods in the soil naturall waste material, the individual feels ally expected. If the acids are superall waste material, the individual feels ally expected. If the acids are super-refreshed and is ready to take up the abundant, something must be used to check them and restore the proper bal-

tating crops in such a manner as to use the manure from farm animals on the In the same dirt in the container cow- land and at the same time make clover peas were sown which made a good one of the crops in the rotation. By folgrowth. After a few weeks the cowpea lowing such a course in a consistent vines were taken out and more cowpeas manner, the danger of meeting any trouplanted, but the second crop was not ble from the germ of fatigue in the soil successful. It was like the second crop can be deferred for very many years. If of wheat. Potato seedlings were put in keeping all the stock on the farms that

farms, and there would be less money wasted on commercial fertilizers, for in very many instances the results would prove that the costs would exceed the value of the increase in the crop.

Wayne Co. N. A. CLAPP.

CORN SHOW FOR ST. CLAIR COUNTY.

On November 21-22, we held what we beieved was the first corn show ever held in St. Clair county. This corn was selected by the children in the rural schools and most of the schools in this county were represented, but in some sections of the county, weather was not favorable for a good crop of corn and so naturally to send in corn.

This county cannot be classified as a same quantities of nitrogen, phosphoric good corn county, but, nevertheless, we had a large number of samples of the ground. Corn will succeed itself better fair was to get the children interested erally grown throughout the county. From yield. It is often poison excreted from over half of the corn grown in this counsame kind. Some crops, like oats and and White Cap comes second, with the shown at this fair was the very best Encouraged by the results obtained by available in the respective sections and which is badly mixed and should be eliminated. Much of the corn is very small, and large yields cannot be expected from such varieties. ed a place in the agriculture in St. Clair The Flint samples were very county. were examined. In all of the portions of good and I believe far above the average

Prof. V. M. Shoesmith, from M. A. C., judged this corn and Dr. Eben Mumford, Whether the compound mentioned is spent a day with us and on Saturday af-

this fair because it was for them, and the parents apparently took as much interest as the children. About 1,000 farmers visited the fair during the two days vorable with this agricultural movement became interested also. This is only the beginning of the formation of corn clubs in this county and next year we expect to have a number of boys who will grow soil becomes sterile, the remedy is easily an acre of seed corn and this corn will be a great deal better corn than was on exhibit at our corn fair this year. going to furnish the children with good clean seed of uniform type and so all of in order to get clover started, the use of them will be started on the same basis. The prizes, which were cash, follow. ranged from one to five dollars.

Yellow Dent.—First, Ruth Schaenzlin; 2nd, Jennie McCartney; 3rd, Isaac Hillock; 4th, Merl Fritz; 5th, Margretta Dunn; 6th, Cecelia Tebeau; 7th, Walter Fritz; 8th, Hazel Dreschler; 9th, Alice Lawler; 10th, Esper Donahue; 11th, Clark McDonald; 12th, Mabel Dreschler; 13th, Fenton Low; 14th, Florence Cahours.

White Cap and White.—First, Glen Barrett; 2nd, Dorothy Crocker; 3rd, Richard Scramler; 4th, George Tripp; 5th, Clarence David; 6th, Otto Schroeder; 7th, Linne Dane; 8th, Ellen Young; 9th, Dudley Field; 10th, John Hillock.

Strawberry Dent.—First, Elliott Folkerts; 2nd, Myron Moak; 3rd, Murley Bonney; 4th, Mark Lashbrook; 5th, Gerald Pembleton; 6th, Walter Fritz; 7th, Russell Boulis; 8th, Fred Parker.

Pop Corn.-First, Irvin Wuest.

The approach of winter has brought large numbers of partly fattened cattle from Wisconsin, Minnesota and northern Iowa to Chicago and other western markets, owners showing an anxiety to get their stock cashed in before bad weather sets in, and prices reached lower levels, with even the best class of heavy beeves participating in such reductions in values. Yearlings and fat butcher stock are apt to show the most activity, but demand for nearly all descriptions of cattle fell off to a marked Jegree, as usual, during Thanksgiving week, when nearly every family eat poultry.



Drilled 200 to 400 lbs. to the acre, Fish Brand Fertilizer will make your Corn Crop surer

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Write for circulars giving full information concerning each of these courses.

PRESIDENT J. L. SNYDER, East Lansing, Mich

NOTICE

At the annual meeting to be held in the city of Hastings on January 18, 1914, to commence at ten o'clock A. M., the members of the Michance Company will vote on amendments of sections 5 and 7 of the charter of the said company, D. W. ROGERS, Sec. Dated at Hastings, Mich., Dec. 9, 1913.

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Send us your specifications. Let us show you how to save money on the lumber you buy. Write us today and we will send you a handsome 1914 calendar.

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H. & H. Wolf importers of Belgian Horses exclusively, advise old and prospective patrons that their new 1913 importation is now in their barns. It is in all respects by far the most select lot of horses of this breed that have ever been stabled in their barns. Big, weighty, typey drafters of quality all through that challenge comparison with the Best Anywhere. A select lot of mares, too, Get our terms and Guarantee. This will interest you as much as the horses.

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NATIONAL FIRE PROOFING COMPANY

THE INTERNATIONAL.

(Continued from First Page). tion, not only on account of their good quality but as well for their peculiar and uniform marking, having the color and coat of the Angus and much of their type, with the white head markings of the Hereford and the poll of the black breed. In the three-year-old class the Angus breed won only first, the three other prizes all going to Hereford entries.

In the Hereford exhibits there were carlot exhibits which merit special mention from the fact that they not only won the American Hereford specials for yearlings and two-year-olds, and first in their class from the Southwest District, but were as well shown as feeders in 1912. thus showing that prize winning feeders are the material from which prize winning fat steers can be made with the right kind of care and feed. The yearlings in this class were exhibited by J. G. Imboden, of Illinois, and the two-yearolds by Notre Dame University.

The Shorthorns landed a championship in the feeder division, the sweepstakes prize in this carlot class going to "Al." of Colorado, on a fine load of Shorthorn yearlings.

In the carlot sheep contest the western lambs were easy winners, the championship honors going to a very fine load of western lambs, bred and fed by Knollin & Finch, of Soda Springs, Idaho. Their quality was of a character to speak volumes for the improvement of mutton type in western lambs and their finish was a credit to the feeders. A Michigan entry in this class strongly commended by the judge was the top of two loads fed and exhibited by E. G. Read, of Richland, Mich., who won the grand championship last year. Another entry seriously considered for the high honor was a load of westerns, fed and exhibited by Miss Lois McFalden, of Flossmooor, Ill. While the carlot exhibits of native lambs were not up to the high standard attained by the westerns, they were good, and here again Michigan was a close competitor for first honors. The first premium in this class went to a well-finished load of Shropshires bred and fed by Miles & Reese, of Eavnsville, Wis., while Wm. Conley, Jr., won second on a load of shorn grade Shrops, and Henderson & Bruner, of Hickory, Pa., got third on an entry of shorn grade Dorsets.

In the carlot hog classes, in which there were an unusually large number of entries, the championship was won by I. D. King, of Burlington, Kas., on a load of Berkshires in the 350-lb. class, a load of Texas Poland Chinas being second in this

In the individual fat classes the entries were more numerous than ever before, and the individuals shown were fully up to the high International standard set in previous years. The grand championship in the steer class was again won by a grade Angus, this time a two-year-old that was last year's reserve championship calf. This steer, Glencarnock Victor 2nd, was exhibited by J. D. McGregor, of Brandon, Manitoba, who won the championship last year on Glencarnock Victor, both winners being from the same dam. A cut of this grand steer, together with a description of the methods used in finishing him will be published in the next issue.

In the fat wether class Canada also scored a victory with the Campbell entry, a grade Shropshire yearling of wonderful breadth and quality. The same exhibitor won last year on a pure-bred yearling Shrop.

Both grand championships in the fat barrow class were won by Poland Chinas, exhibited by John Francis & Sons, of Illinois. The grand champion barrow was 18 months old and weighed around 550 lbs. His chief competitor was an Iowa Berkshire of about the same weight and quality, the deciding factor being the dressing percentage.

The breeding classes in all departments were well filled with entries of superb quality, while the horse show was a magnificent spectacle in itself, and the evening entertainment features drew the usual large crowds, all contributing to the general opinion that this year's International was the "best ever."

A summary of the championships, in the different classes, all of which are not available at this writing, will be published in the next issue, together with a brief account of the breed meetings held during the week and other information regarding this greatest of live stock shows, gleaned from the mass of results as of greatest interest to the reader,

LAMB SHOW AT THE LIVE STOCK MEETING.

A wether lamb show is to be held at the Twenty-third Annual Meeting of the Michigan Improved Live Stock Breeders' and Feeders' Association, January 14-15, 1914. Three prizes will be offered for the best lambs, either pure-bred or sired by pure-bred rams of each one of the fol-lowing breeds: Southdown, Shropshire, Hampshire, Oxford, Dorset, Rambouillet, Cotswold, Lincoln, and Leicester, making in all 27 prizes to be competed for by native lambs. Three prizes will also be offered for the three best black-faced western lambs, and for the three best white-faced western lambs, and for the three best white western lambs.

For each of the above prizes the association will put up a handsome ribbon, and the State Breeders' Association representing some of the breeds will undoubtedly offer very liberal prizes for the best lambs of their breed.

For the three best lambs in the show, all first prize lambs competing, the Association will give a gold medal to the first, a silver medal to the second, and a bronze medal to the third.

Following the show on foot, which will be held Wednesday, January 14, the lambs will be slaughtered and all entries compete in a carcass contest, January 15, and for the three best carcasses, gold, silver and bronze medals will be awarded.

The carcasses will be disposed of by the officers of the Association and returns forwarded to exhibitors, or the carcasses returned, as exhibitor may desire.

Judges from out of the state will be secured and will pass on the merits of the lambs from a market standpoint.

No entrance fee will be required, but exhibitors must become members of the Association by paying the annual dues of one dollar. All entries must be in the hands of the secretary before December 15, 1913. Exhibitors will be limited to two entries in any one class or breed.

All entries will be fed, cared for, and slaughtered by the Association, the only expense to the exhibitor being that of shipping his animals to the secretary at Lansing.

The Barrow show last year was a decided success and we sincerely hope that breeders will take advantage of this opportunity to demonstrate to the public that their favorite breed is not only the best on foot but dresses out the best carcass.

In addition to the above the Michigan Hampshire Association will give prizes of five, four and three dollars for the first, second and third prize Hampshire lambs. If the best black-faced western lamb should be one sired by a pure-bred Hampshire ram, the American Hampshire Association will give a prize of ten dollars. If the three best lambs in the show are Hampshires the American Hampshire Association will give prizes of five, four and three dollars respectively for the first, second and third prize lambs.

For further information address, GEO. A. BROWN, Sec'y, East Lansing, Mich.

LIVE STOCK NEWS.

Continued liberal marketings of hogs in Chicago and other leading markets of the country has made a low scale of values, and recent prices were the lowest seen since last February. With an extremely large proportion of hogs of very light

large proportion of hogs of very light weights in the daily receipts, such offerings were strongly discriminated against by buyers, while pigs have shown declines of from 15@25c per 100 lbs. in the Chicago market on some recent days.

Numerous belated buying orders for feeding lambs have been placed with live stock commission firms doing business in the Chicago stock yards, including many such orders from Michigan farmers, as well as orders from parts of Ohio, New York and other states, but the lateness of the season renders it simply impossible to fill orders with anything like promptness. Meager offerings have ran the prices for prime feeding lambs up to \$7 per 100 lbs., the favorite weight running from 45 to 50 pounds. This demand promises to continue through December, with no increase in available offerings.

Horses were in better demand than usual last week with approximation.

Horses were in better demand than usual last week, with numerous eastern buyers present, including some from Maine, and prices firmed up for the better class. There was no auction after Wednesday, the stables being turned over to the horse show in connection with the International. The best class of heavy drafters ruled firm at \$300@350 per head and upward, with few offered, while good, but lighter, drafters sold at \$235 and upward. Chunks weighing from 1250 to 1450 lbs. brought \$185@275, and little southern chunks weighing 900 to 1100 lbs. brought \$125@160. Inferior old horses sold slowly around \$75@100, and drivers were salable at \$125@225. Horses were in better demand than us-al last week, with numerous eastern

CONDUCTED BY COLON C. LILLIE.

BEST GRAIN RATION FOR GROWING HEIFERS.

I have some heifers two years old next spring and coming in at that time, and some that will be one year old then. Will Mr. Lillie give me the cheapest and best grain ration out of the following grains or feeds: Oats, ground, corn meal, bran, oil meal, cottonseed meal, gluten feed, corn and cob meal. For roughage I have mixed hay, cornstalks and straw. They are grade Holsteins and rather small. Could you give me an idea about how much grain to give them to a feed?

Wayne Co.

With plenty of mixed hay and corn-

With plenty of mixed hay and cornstalks and oat straw for a change, you have a good roughage ration for young growing heifers. It would be a nice thing of course, if you had corn silage, you cannot get a better succulent food, but you can get along without it. If you had mangle wurzels, or turnips, or something of that sort to give them once a day, it would be a great benefit also. With a liberal allowance of roughage young growing heifers do not need a great amount of grain, although I think it is profitable to feed them a small amount.

With the grains mentioned I think that taking everything into consideration, corn meal, ground oats, and wheat bran, equal by weight, would make probably the best ration that you could feed the heifers. I don't like to feed oil meal and cottonseed meal to young growing animals liberally because they are unbalanced food products. There isn't enough ash in them. Ground corn and oats are a splendid ration for growing animals. If you will add a little bran to increase the protein to balance up your roughage which is a little bit deficient, the ration will be almost ideal. Of course, if these heifers were dry cows, if they had reached their maturity, had fully developed and were simply dry, it would be a different proposition, but they are growing animals. They have got to have a sufficient amount of protein in the ration to do this. They could get along fairly well on just simply the roughage if they have plenty of hay, but they would have to eat so much more of it, that at the price of hay I believe it would pay to give them a little concentrated feed and not quite so much rough-Wheat bran is one of the best they grains that you can possibly feed young growing animals. It keeps their bowels in good condition and there is plenty of ash and mineral matter in it. The only objection is that everybody thinks it is so valuable that they are willing to pay liberally for it and this makes it highso much bran you could cut out part of the bran and put in a little gluten feed in the place of it.

Now as to the amount to feed, they we get our young cattle up in the fall we commence by giving them just a handful of grain and feed them that way for a week or two and then gradually increase it until we are giving them two or three pounds of grain a day, and this in addition to all the roughage they need is

OAT AND PEA SILAGE.

Wishing a little information from some good authority, I ask you a few questions in regard to oat and pea silage, the answers of which will be appreciated very much. Do oats and peas make good silage? Will it keep as well as corn silage? How many tons can one expect per acre on land that will yield 50 to 70 bushels of oats, depending on the season. What amount of seed of each per acre? Clinton Co.

Oats and neas can be made into silage.

silo when they are green. settle and pack as well as they ought to, take the place of clover or alfalfa hay, of the dairy feeds.

and I should much prefer to do this. Make the peas and oats into hay and put the corn into the silo. However, if you must put them into the silo be sure and put them in before they get too ripe; be sure that there is plenty of moisture, and be sure that they are well tramped, and With they will make fairly good silage. a heavy crop of peas and oats you ought to have five or six tons of green stuff to the acre

Sowing peas and oats for silage or for hay, you ought to mix the seed equal parts by measure, that is, 60 lbs. of peas to 32 lbs. of oats, and then sow two and a half or three bushels per acre. If you make them into hay, cut them when the oats are in the milk. Don't wait too long. Make them as you would clover hay. Cut them down and rake them up and put them in crocks and leave them until they are cured and then draw them in and you will have excellent hay.

HAY FOR HORSES BUT NONE FOR cows.

I have plenty of wheat straw, oat straw, hay and oats for my horses but none for the cows. I have about 2,000 baskets of corn, plenty of stalks and about 30 tons of corn silage. Have eight cows, six helfers, and six spring calves. Have chance to get 35c per basket for the corn and take dairy feed in return. I am feeding the dairy cows and helfers silage twice a day with cornstalks at noon and about 1 pound of oil meal and plenty of straw. Is that enough? I am feeding the milch cows silage with cottonseed meal, dairy feed, and about a half pound of oil meal night and morning and stalks and straw at noon. Can I improve on this ration? I am selling milk.

Kent Co. G. H. T.

In the winter time farmers' horses us-

In the winter time farmers' horses usually do not have to do any more than enough to have good exercise, and there would usually be more profit in feeding the straw and cornstalks to the horses and giving the hay to the cows that are giving milk, rather than to feed the cows that are giving milk the straw and the horses the hay. But I am well aware of the fact that most people think the horses must have the best there is on the farm anyway, and it perhaps is all right. If you only give them what hay they will eat up clean and provide a grain ration in proportion and they can eat some of the straw as well, these will make an economical ration for the horses.

However, I have seen farmers that fed their horses altogether too much feed in the winter time when they were doing nothing. It was absolutely a waste of the The horses were not as well off as feed. would have been if the had a lighter ration. A horse in the winter time doing scarcely nothing at all, don't need the food that he does in the summer time when he is working hard. He ought not to have so much.

On the other hand, a cow giving a good flow of milk ought to have a good liberal priced. If you didn't want to feed quite ration, because she is working. She is so much bran you could cut out part of "in the harness" every day. She converts her feed into milk. You sell the milk and get the money. One can afford to feed a good dairy cow a liberal ration of well don't need a heavy grain ration. When balanced foods, and, in fact, that is the only way to get very much money out of If you scrimp her she will take care of herself before she produces a maximum flow of milk.

I think the ration for dry cows is a very good one. The one pound of oil meal is rather low and a few weeks before they came fresh I believe I would gradually increase this to two pounds, but when they come in then, of course, they will have to have even more.

Where you are feeding quite liberally of oil meal and cottonseed meal, as you are, I doubt if it would pay you to trade your corn for dairy feed. I know nothing about these dairy feeds from actual experience because I never feed them. I have heard some people recommend them. But we know exactly what corn meal is and we know that it is a good concen-Oats and peas can be made into silage trated feed, and if I did not have corn silage made from the whole corn and They ought to be run through an ensilage to feed cornstalks, I would like to feed a cutter and cut fine. No crop like this little corn meal with the cornstalks so as will make as good ensilage as corn, be- to have the entire corn plant as a part cause they are hollow stemmed, and they of the ration, and I am of the opinion contain a large amount of air. The prob- that if you would keep the corn meal in ability is that when you put them into place of the dairy feed and use it with the silo they wouldn't contain a sufficient your cottonseed meal and your linseed amount of moisture so that they would meal that you would get just as good results as you will with the commercial and I would think it advisable that if you feeds. Your cottonseed and oil meal are make silage out of them that you run a very rich in protein and they will help stream of water in at the same time. balance up a ration of corn meal, straw But they are not as good a silage crop as and cornstalks in good shape. The idea corn. Not only that, but they can be of a ration for cows giving milk is cormade into most excellent hay and it is rect. You are feeding feeds that are rich better to put the corn crop into the silo in protein to balance up the feeds rich in and make the peas and oats into hay and carbohydrates. The only suggestion I feed them dry in that way. They will would make is to feed corn meal in place



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O WEET CLOVER SEED—The true white blooming variety.

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Annual State Horticultural Meeting the atternoon session. Without exception

which was held at Traverse City, Decemery standpoint.

from the very beginning, for one of the first talks given was one of the most val- characteristic russet skin. Lime-sulphur uable given before the society in years. The place of meeting was in itself inter- and European plums. Self-boiled limeesting and was a good illustration of the sulphur was recommended as the only newer religion, the practical and applied The building was that of the Central Methodist Church, in which younger members. The attendance at all sessions was very good but would have been better if it had not been so difficult for those in the southern part of the state to get there. The interest manifested however, was of the very best and there were spirited discussions on all subjects.

No one subject predominated in interest, which is unusual at such meetings. Among the most prominent given attention were the subjects of spraying, thoroughness in spraying, pruning, marketing and advertising. The good interest shown all subjects is probably due to the fact that each speaker had his subject well in hand and had a message of value to present.

The meeting was opened with a talk by E. O. Ladd, of Old Mission, on the history of fruit growing in the Grand Traverse district. He stated that the first apple trees were from seed sown by the Indians. The first nursery stock was bought from a New York nursery and planted in 1860. His experience showed him that Baldwins and Greenings would not do well in low places in that region but that Duchess would. He traced the development of the fruit industry there from the old methods, such as banding for the codlin moth, to the present scientifically developed methods

Mr. B. J. Case, of Sodus, N. Y., followed Mr. Ladd. His talk was meaty with good thought and suggestions. He stated at the opening of his address that we knew but little of our business and after he got through it was apparent to those in attendance that his statement was true in most cases. His talk was so full of valuable suggestions that an attempt to mention them in the short space available would not do them justice. In a future issue this talk will be given in full

Opening the session in the afternoon, A. J. Rogers, of Beulah, gave an interesting talk on orchard fertilization. He compared the results of different experiment station tests and gave the value of the various fertilizer materials. He suggested that cultivation later than midsummer would produce late wood growth which would be harmful. In the discuscover crop and also suggested plans for test plots by which one could determine the fertilizers the orchard needed.

Harvesting and Packing.

and packing of fruits. should be selected so as they will not ripthe longest used in his orchard. Thin- society be admitted to the meeting. ning he found to increase the quality of fruit was less bruised than when picked creased by this plan. The fact er than for a distant market. If possi- often been superior to those of other like did, he always put the fruit in crates and left it in the packing sheds to dry and cool. Honesty in packing, using attrac- resulted as follows: tive packages and advertising were very discussion of this subject many interesting things were brought out. Grading machines and the Sulzer law being the most prominent. A discussion of pre- sion; J. E. Merritt, Manistee. pared Bordeaux, lime-sulphur, soluble esting. The general opinion was that pre- on the executive board.

The forty-third annual meeting of the pared Bordeaux was not advisable. Fav-Michigan State Horticultural Society, orable results with the soluble sulphur were given. Home-made Bordeaux was ber 2-3-4, was a decided success from ev- recommended for grapes and Russet apry standpoint. ples. Lime-sulphur was the cause of The value of the program was apparent green Russets which would not sell as well on the market as those with the was preferred on apples, sour cherries safe summer spray for peaches.

Fruit Laws.

In the evening Mr. Smythe, of Benton were rest rooms, a gymnasium, shower Harbor, explained the laws referring to baths and other things of interest to its packing, which were passed and put in packing, which were passed and put in force during the past season. The great trouble in enforcing the laws, he stated was the lack of power and public sentiment to back them up. He urged greater publicity of the laws and cited instances showing the great need of putting these laws in action. He also mentioned the weaknesses of the present nursery and orchard inspection laws, and after the subject was thoroughly discussed Mr. George Hawley was appointed as a committee of one to draft resolutions suggesting changes in this law. These resolutions and comment upon them, will be given in a later issue.

Prof. Pettit, entomologist of the Agricultural College, showed views of and described the relation of bees to fruit growing. He also showed slides of the tent caterpillar which has been quite serious in the northern part of the state. Prof. H. J. Eustace, horticulturist of the college, also presented lantern slides of orchard and plant diseases which were both interesting and instructive.

Mr. W. D. Bagley, of Old Mission, opened the Wednesday morning session with a paper, "Fruit Growing on Sand by a Sandy Farmer." His talk showed what grit and sand in a man will accomplish in bringing a veritable sand dune to productiveness and profit. He did this by chucking humus into the sand hills, and then using other fertilizers. He started by throwing cornstalks on the land and turning them under. This he followed with rye and later with vetch. While Mr. Bagley has accomplished much on this land, he admitted that he would have preferred to buy land more fertile.

Prof. Eustace followed with a talk on the future of the cherry industry. He gave figures of the number of Montmorency cherry trees planted in the region around Traverse City and also, by figures, suggested the size of the probable crop in a few years. It was plainly shown that 3,000 or more pickers would be required to pick the crop which would have to be moved in about ten days. He suggested to the people of that vicinity that they had a problem which they should give serious consideration.

Financial Report.

During the business session which folsion one man brought out the value of lowed, the financial report showed that sweet clover as a cover crop, in fact, he the society had a permanent fund of \$81,had found it better than vetch for that 000, of which \$7,600 was of the T. T. purpose. Mr. Rogers favored millet as a Lyon memorial fund, and \$500 of the life member fund. The interest on this amount and the sum received from annual memberships has not been enough to carry on the work of the society as has been W. G. Farnsworth, of Waterville, Ohio, desired. During the time when the socigave a valuable talk on the harvesting ety received the state appropriation nu-He stated that merous auxiliary societies were organized we should prepare for the harvesting and through them a large number of time when we set the orchard. Varieties members at reduced rates were taken in. So, while the society has a large memen at the same time. The trees should bership the receipts from this source be headed low and the old trees should be have not been large. After some discusheaded back to make picking easier and sion a motion was made and carried ess expensive. Twenty-foot ladders were which stated that only members of the

The strongest horticultural societies in the fruit and saved time and expense at this country are run on this basis, and harvesting time. He preferred padded they have found that their membership baskets for picking as he found that the has been held to normal and even inin bags. The time of harvesting dependings were free to all made it such that and our way of doing things. ed upon the market. If for local market many did not appreciate the programs. the fruit could be left on the trees long- The list of speakers the society chose has ble, Mr. Farnsworth never picked when societies where a higher membership was Election of Officers.

The election of officers which followed

the subjects were well selected, practical and well given. It was very difficult for the audience, who were the judges, to select the winners. The decision of the hearers was as follows:

1st. Ernest Hart, of Rochester, N. Y., whose subject was, "Does it Pay to Renovate Apple Orchards?"

2nd. J. A. Petrie, Kalamazoo, Mich., who spoke of the shot-hole fungus of the

3rd. A. L. Coons, Lowell, Mich., whose topic was, "Market preferences."

The students' judging contest was won by J. A. Petrie, with I. R. Notteware, of Bellaire, second, and H. S. Bird, of Lansing, and A. L. Coons, tied for third.

Of the growers exhibiting at the fruit hall, A. J. Rogers, of Beulah, got first prize; E. W. Lincoln, of Greenville, second, and F. H. Hemstreet, of Bellaire, was awarded third.

The chief speaker of the Wednesday afternoon session was Roland Morrill, famous for peaches, of Benton Harbor, who spoke on the present status of the peach industry. In his very able presentation which was interspersed with many terse philosophical truths, he showed that in Michigan we had nothing to fear from competition of other peach growing districts. Statistics showed that in the aggregate this state was heavily in the peach business, but individually it was not. He said that the Elberta reigned supreme in the peach business and wherever it could be grown successfully this industry became of commercial import-The time of ripening of this variety in this state gave us the advantage over other parts of the country as that time is the usual canning time for the housewives. Mr. Morrill made a special plea for honesty in packing so that the state could maintain an eager demand for this fruit.

Banquet.

The annual banquet was held Wednesday evening in the church gymnasium and was in charge of the ladies of the After a most excellent physical church. feast, Mr. R. H. Sherwood, of Watervliet, as toastmaster, started a mental feast in which sense and nonsense were delightfully mixed. Mr. Sherwood is a born toastmaster and the list of speakers he presented held the interest of those present for over two hours. One thing strongly apparent, was the loyalty of the Traverse City people who responded to toasts to their part of the county. Such a home spirit is to be commended. When everyone gives a boost something has to move for the betterment of the locality.

Mr. Case, of New York, responded to the toast, "Associated Effort," and took biblical times to illustrate the value of such effort. Prof. Eustace spoke of the Agricultural College and urged that all be friendly to that institution. He invited friendly criticism as well as encouragement. Mr. Hart, a student at the college, spoke on the subject of unified effort. In his talk he paid high compliments to Prof. Eustace and his ability as an advisor and teacher. At the close of his toast Mr. Hart called on the M. A. C. men present to give the college yell, which certainly well illustrated unified effort.

Mr. Farnsworth asked that we give more attention to the human factor in agriculture and strongly urged that we give more attention to the most important crop of the county, the boys and girls. Mr. Roland Morrill gave a short sketch of his early experiences in the peach business, which was full of value and interest.

It was only after Mr. Sherwood accused him of eating peas with his knife and thereby giving the plant breeder, Mr. Burbank, the inspiration to breed a square pea that Mr. Bassett, our secretary, consented to say anything. After

(Continued next week).

TROUBLE DEPARTMENT.

Inasmuch as the Michigan Farmer dethe weather was hot and muggy. If he charged and members only were admitted, sires to be of service to fruit grower and farmer, we will gladly answer questions on any phase of fruit growing; indeed, we will deem it a pleasure if we can be of President, J. Pomeroy Munson, Grand assistance in solving any of the perplexstrongly urged by Mr. Farnsworth. In the Rapids; secretary, C. E. Bassett, Fenn- ing problems which may appear in the ville; treasurer, Robert Smythe, Benton daily work of the fruit grower. Mr. Frank Harbor; executive committee, Frank A. A. Wilken, who has for the past eight Wilken, Detroit; O. E. Ladd, Old Mis- years been in charge of the South Haven Experiment Station and who is now on All of the above were re-elected ex- the Michigan Farmer staff, offers the sulphur and other sprays was also inter- cept the last two, who are new members benefits of his practical and scientific experience in fruit growing to subscribers.

A Successful Orchard Renovator.

is found, it is worthy of mention.

made such a success. When he bought to be just a little careless in the work, his farm it had the usual farm orchard on it which had about 54 trees in it, con-

Old orchards of about fifty trees are reference to spraying, may seem too innumerous. They are found on most all tense for the general orchardist to follow. farms, where they usually have such a It might be a matter of argument as to menial position as being an eyesore to whether the extra sprayings he puts on the farm, serving as a place for some of give enough difference in results to pay the farm "junk," or as an exercise place for the trouble and expense they make. for hogs and other farm stock. Well car- However, when a man can show the reed for and profitable farm orchards of sults Mr. Howard can, it leaves little this size are scarce, undoubtedly because room for argument, as results are the most people believe them too small to most convincing things a man can pre-bother with or too far gone to bring sent, The least that can be said of Mr. back. So when a big success of this kind Howard's method is that it pays better to err on the side of being too thorough-Frank Howard, of Berrien county, has if such a thing is possible-than it does

During the ten years-1901-1910 inclusive-Mr. Howard's apples brought him sisting of Baldwins, Spys, Greenings and over \$6,000, or a little more than \$100 per Russets. Like most orchards of its kind, tree, and during the past seventeen years it was a hopeless case, but Mr. Howard his orchard has never failed to produce is a firm believer in the possibilities of old a crop. Except in 1901, when his crop orchards and in the saying, "Where there amounted to 121 barrels, the figures have



A Strict Application of Scientific Principles to Production Brought Unusual Success to Mr. Howard, of Berrien County.

is life there is hope," so he started im- never been less than 225 barrels per year, western part of the state by his accomplishment.

His first procedure was to give the orchard a heavy pruning. He literally prun- cut out some of the old timers. ed the daylight into the trees, many of that he should be proud of is that water would drain off, and then thor-illustrates the productive possibilities of oughly painted all the larger wounds. old trees under good care. This was a wise precaution on his part, as due to the heavy cutting he did, many of the wounds would otherwise have rotted back. Water sprouts started freely the first year; these he kept well thinned out, leaving only those which were well placed for branches. It was an average of three years before most of these new branches started bearing.

On the subject of spraying, Mr. Howard is a crank. It was this fact, though, that made it possible for him to get such good results from his orchard. Like other successful orchardists, he realized that spraying is the most important factor in both orchard renovation and the growing of good fruit. For the first few years of his orchard work he sprayed four times. While he got very good results from that number of sprayings, he wanted still better, so he increased the number of applications to seven, and during the past nine years, he has sprayed eight times each year. Mr. Howard is very particular about getting his spray on at the right time, and will leave all other work to be on the job when that time is at hand.

The usual lime-sulphur scale spray is applied early in March. This is followed by two applications of copper-sulphate before the blossoming time. After the blossoms drop, arsenate of lead alone is used, as Mr. Howard believes that there is little use for a fungicide at this time. Ten days later he uses the lead and Bordeaux mixture. Other sprayings follow at intervals of about two weeks. For the control of the second brood of the codlin moth he sprays twice, the first time about August 1, and the second about two weeks later. Mr. Howard has not used lime-sulphur as a summer fungicide, as he has had very satisfactory results with Bordeaux mixture.

Mr. Howard's methods, especially with

mediately at the process of renovation. and have run as high as 732 barrels. This As a result, he has made the orchard maximum crop was raised in 1911, and "come back," made it pay him a good brought \$1,830. For 1912 the crop was profit, and has brought fame upon him- 250 barrels, netting \$500, and the past self in the fruit district of the south- season's production was 500 barrels, which netted him \$1,325. The crops for the past three years were from only forty trees, as a few years ago Mr. Howard had to that he should be proud of is that his apthe tops being cut back ten to twelve ples have averaged him 90 per cent No. feet. In this he took especial care to 1. One tree produced a crop of $28\frac{1}{2}$ make all of the cuts slanting so that the standard barrels of apples in 1911. This

The results Mr. Howard has attained with his old trees show the possibilities that are hidden in old neglected orchards, and strongly suggest that many of us are neglecting our opportunities by not taking care of these old farm orchards. It also stands as an object lesson of what perseverance and thoroughness can accomplish.

CIVES.

Cives or chives are not often seen in the garden now, though they were com-mon enough at one time. They are as easily grown as grass. All that is required is to set them out and leave them to care for themselves. They start to grow as soon as spring opens and are not long in producing an abundant supply of tender leaves which have the flavor of a mild onion. They can be used in a variety of ways, in soups, salads, or raw like young onion tops. The top only is used, the bulb being small and unfit for anything except for propagation. Cives make a pretty plant for a border. Growing thickly together, as they do, the tops furnish a mass of pleasing green from spring till fall. During the summer there is a yield of pretty purple blossoms which make cives worth growing for ornamental purposes alone. A little ground devoted to cives should give a good account of itself. F. D. WELLS. Oakland Co.

BOOK NOTICES.

Plant Life and Plant Uses. By John Gaylord Coulter, Ph.D. Cloth, 12mo, 480 pages, illustrated. A high school book about the fundamentals of plant life and about the relation between plants and man. Price, \$1.20. American Book Co., Chicago. man. P Chicago.



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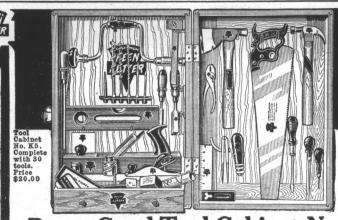
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any suit, brought against any subscriber to The Michigan Farmer by the publisher of any farm paper,
which has been sent after the time ordered has expired,
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DETROIT, DEC. 13, 1913.

YOUR OWN TRADE PAPER FIRST!

This is the season when every farmer should select his reading matter for the coming year. During the next few months he will have more leisure time to devote to reading and study than during the balance of the year, and that time should be improved to the best possible advantage. If it is so improved it will add to the profit, not only of next year's farming campaign, but to the work of succeeding years as well, thus making the winter season, from the standpoint of actual results, the most productive in the way of remuneration for personal effort of all the year for the farmer who works first step should be to subscribe for your own trade paper, the publication which devotes its energy exclusively to the needs lished of immediate and certain interest to the farmers in that prescribed terri-The Michigan Farmer is a trade effective organization all along the line. paper published exclusively for Michigan farmers and devoted entirely to their interests and needs, a concentration which is impractical for the paper seeking general circulation throughout the country. It will contain only matter of interest to Michigan readers, and helpful to them in the study of Michigan agriculture. It is the Michigan farmer's own trade paper, and the 50 cents invested in a year's subscription will be the best investment any Michigan farmer can make with a view of increasing his profits or bettering his prospects for the coming year.

CURRENT COMMENT.

An important ac-Sheep Breeders Tackle tion was taken by the Dog Question. several of the national sheep

breeders' associations at their meetings held at Chicago last week, in the appointment of a joint committee to consider the dog problem and recommend adequate legislation which will be sought mote the growing of alfalfa throughout in the several states. A joint committee the country. This is called the National of this kind, composed of men representing the several national sheep breeders' associations will not only bring to the ed in its list of officers and directors. solution of this vexed question the ex- Among the directorate are included the perience of different states, but will, as well, form the neucleus of a powerful influence in forcing desirable and uniform ies, and Colon C. Lillie, of Michigan. The legislation on this subject in the several states where the sheep industry is constantly menaced by the dog nuisance.

The depredations of dogs have ever been a menace to the sheep industry, and they have seemed to increase, rather conditions in the United States may be than decrease, under modern conditions. Under our laws, as under the laws of most states, partial compensation can be secured by the owner of sheep which are killed by dogs, but this is secured only after much delay and difficulty and then much good should come from the actividoes not compensate the owner of the flock for anything like the damage done.

Michigan Farmer too many cases it does not even dispose damage. Various remedies have been suggested and laws have been proposed for they have been ineffective because there was no united influence behind them. This movement will supply that force and should enable the sheep owners of the country to secure the passage of laws in the several states which will afford adequate protection for their flocks.

Preventive, rather than remedial measures are needed, and until these are applied through adequate legislation, sheep owners will be morally justified in applying direct and effective preventive treatment to trespassing dogs,

Another important

national breeders'

Stock Freight action taken by the Rates.

ascociations meeting in Chicago during the International, was the pledging of funds, as suggested the National Association of Record Societies, for the presentation to the Interstate Commerce Commission of a petition for a change in live stock rates and shipping contracts, particularly as related to less than carload shipments. Under present rates and regulations shippers are required to sign a contract in which the animals shipped are given a nominal valuation in order to get the minimum rate for shipment. If full valuation is given, the rate is automatically increased to an amount which is out of all proportion to the item of insurance against accident necessarily assumed by the carrier, and the additional rate becomes a heavy bur-

of several states have held that inasmuch as this constituted a forced or compulsory contract it was not binding as against loss from accidental injury for which the carrier was responsible. Recently, however, the Federal Supreme Court has held that the contract is binding and that no more than the stated valuation can be recovered in the event of loss from any cause. In view of this final interpretation of

den on the shipper. In the past the courts

the law as applied to the present live stock shipping contract the national breeders' associations have pooled their interests in an attempt to get needed action by the Interstate Commerce Com-mission to relieve this condition. This is but another example of the benefits to with his head as well as his hands. In be derived from effective organization. It preparing for this season of study the is quite certain that individual shippers would find it much more difficult to secure a needed reform of this kind than will the association of the organizations of the farmers living in a limited field of with which they are affiliated. What is circulation, thus making the matter pubtrue in this case is equally true in any other line of effort in which farmers may be interested. The "answer" is more

ciations.

The tendency of the National Crop Asso- day toward organization is perhaps more clearly shown

in the organization of associations to promote certain staple crops, than in any other line of agricultural effort. During the present year at least two such organizations have been successfully launched. The first of these was the National Potato Association, organized to promote an improvement in every phase of potato growing and marketing. This organization was headed by men of national reputation in this line, which gave it a standing which has been productive of early results. Already Michigan potato growers have organized an auxiliary association, as reported in a recent issue of the Michigan Farmer, and beneficial results seem sure to follow in our state, where the potato is an important cash crop.

Last week a similar organization was effected at a meeting in Chicago to pro-Alfalfa Growers' Association, and well known farmers and educators are includnames of Dr. Eben Mumford, State Leader of Farm Management and Field Studaim of this organization, according to the constitution adopted, is "to create a more general interest in the growing and use of alfalfa; encourage its study as a forage crop, and that its great value to farm more fully understood; to determine more economical ways of handling and feeding alfalfa, and to hold meetings that will encourage and better alfalfa growers." These are certainly worthy objects, and ties of an organization of this kind.

Nor does it bring back the sheep, and in the farmers of Michigan will gain a direct benefit from two national organizaof the dog or dogs responsible for the tions of this kind which have been promoted within the year. That such a benefit will accrue can hardly be doubted by the betterment of present conditions, but anyone who has an adequate appreciation of the relation of these two crops to the prosperity and perpetuity of our agriculture.

> One of the interest-"As Others See Us." ing features of the

recent meeting of the Michigan State Association of Farmers' Clubs consisted of an address by a representative city "thinker" and a talk by a representative farmer in the same class. Each speaker was entirely frank in his expression as to how the average man in his class viewed those in the other class, and how he looked at some of the problems which are of interest to both, but which are viewed from different angles by each.

The unbiased listener to these addresses and the discussion which followed them, could not but be impressed with the fact that class differences of opinion between intelligent people are more generally due to a misunderstanding of the premises than to a difference in the standard of honesty or righteousness of the people themselves. It is a good thing for people as a class, as well as individuals to have an occasional opportunity to see themselves in the other fellow's mirror. The reflection will have a wholesome, if not altogether pleasing effect.

Perhaps in the ultimate solution of the problems of distribution, which are now engaging the attention of producers and consumers alike, some plan will be evolved which bring these two great economic classes into closer touch and enable each to better appreciate the difficulties to be met and overcome as well as the advantages enjoyed by the others. Any agency which will bring thinking city people and progressive country people together and contribute to a better common understanding of each other's point of view on economic, social and civic problems, will be helpful toward their right solution, It is undoubtedly a good thing for the members of any farmers' organization to occasionally listen to the views of their city brother, and vice versa.

In another column of Profit in Farming. this issue the question, "What constitutes profit in farming?" is asked, and answered from the standpoint of one prominent farmer. Just now this question is engaging the attention of the Bureau of Farm Management, of the U.S. Department of Agriculture, and a survey of representative farms is being made in different sections of the country to determine, if possible, whether the average farm returns a profit, and if so, how much. This survey has included a number of farms in a representative Michigan community, and while the results have not yet been made public it has been intimated by some who are familiar with the situation that they will not be altogether flattering to our agriculture.

If, when viewed from the standpoint of the average farm, farming is not an especially profitable business, this should be no cause for discouragement. Neither is merchandising or manufacturing or commerce. In fact, there are a greater percentage of absolute failures in other lines than is the case with farming, yet there are many notable successes as well.
The same is true with farming, profit in which depends, perhaps to an even greater extent upon the personal equation, notwith the farmer has no control. This is, indeed, an interesting stud and one which each and everyone of us can bursue with profit.

HOW MANY DO YOU KNOW?
Here is a little lesson in advertising and phychology.

Turn through this paper and see what percentage of the advertisers you have there are many notable successes as well. The same is true with farming, profit in which depends, perhaps to an even greater extent upon the personal equation, notwithstanding the many factors involved over which the farmer has no control. This is, indeed, an interesting stud and one which each and everyone of us can pursue with profit.

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percentage of the advertisers you have ever noticed before. Most of them have been appearing in this paper for some time, many of them for years

The things we see casually make little or no impression upon us. Most of these advertisements have passed under your eye at some time, but have left no mark on your memory.

Try the suggestion and see what is your percentage of acquaintance.

Now is a good time to send in your renewal order for Michigan Farmer, as your order can be given more prompt attention than during the big rush about Jan. Make your order for five years-it is only \$2.00-and it will save you the trou-It is a matter for congratulation that ble and expense of remitting each year. HAPPENINGS OF THE WEEK.

National.

Wireless telegraph is probably to be credited with another saving of human life. On Sunday morning 197 persons were taken from the steamer Rio Grande by the steamer Swanmore off the coast of Virginia while the former boat was on fire and thought to be in great danger. The Swanmore was brought to the distressed vessel by means of a wireless message. message.

Three men were slain in the copper strike zone Sunday morning. While the assassins have not been apprehended it is the general opinion that their crime was instigated by agitators and several ar-rests have been made. The victims were shot while sleeping in a boarding house. They were employed by the mining com-

shot while sleeping in a boarding house. They were employed by the mining companies.

Montgomery Ward, multi-millionaire, and father of the mail order business, died at his home in Highland Park, III., Sunday, following an injury sustained on a running board of an automobile two years ago. He was 70 years of age. His continuous fight since 1887 to keep the Chicago lake front free from occupation by commercial concerns, and as a place of beauty, won him the name of "Watchdog of Chicago's Lake Front."

There are reasons to believe that the state of New Jersey will establish an innovation in progressive legislation by inaugurating a new state board of revenue for the purpose of revising the taxation methods of the State and placing the spending of the funds under the management of experts. The scheme will be carefully watched should the Legislature of that state adopt the plan in its present form.

management of experts. The scheme will be carefully watched should the Legislature of that state adopt the plan in its present form.

The cold wave was felt keenly over the north central states Sunday. At Chicago the temperature dropped 32 degrees, accompanied by high winds and snow. Cleveland again suffered from the blizzard, the wind reaching a velocity of 48 miles an hour. Fortunately most of the boats on the great lakes were in port.

Texas residents along the Brozas valley have suffered from floods the past fortnight. It is estimated that from 700 to 1900 persons are homeless as the result of the high waters. The cold wave has intensified the suffering.

It has been decided by the treasury department at Washington that only such persons as come under the provisions of the income tax law will be required to make a report to the government on the amount of their income. The officials do not deny their right to ask all persons to make reports, but agreed that such a procedure would entail too much unnecessary and expensive clerical work.

The big snow storm which swept Colorado last week has been unequaled in the memory of the oldest citizens. From different sources it is reported that 40 persons have died the result of exposure and other causes indirectly due to the storm. The snow ranges from three to eight feet in depth. Traffic of all kinds is at a standstill. There is prospect for a coal famine. Schools, theaters and business in general have been suspended.

Col. Theodore Roosevelt, who is making a tour of South America, arrived in Buenos Aires December 4.

While affairs in Indianapolis are somewhat relieved from the hardships brought on by the strike of the teamsters of that city, matters between the drivers and their employers have not been adjusted. Foreign.

Mrs. Emmeline Pankhurst, the English suffragette, who recently returned to England from a lecture tour of the United States and was arrested upon arrival,

suffragette, who recently returned to England from a lecture tour of the United States and was arrested upon arrival, has again been released following a hun-

nas again been released tollowing a manger strike.

Last week the rebels of Mexico captured Chihuahua, the capital of the Mexican state by the same name. After driving the federal forces from the city a command was directed to capture the entire
federal army before the latter succeeded
in reaching the border of the United
States. This rebel success, together with
others, seems to make the situation in
that country more favorable to the rebel
following, a conclusion that is further
substantiated by reports that Huerta is
preparing to leave the country on short
notice.

mingo. December 15, and there is some tapprehension on the part of officials at Washington as to the possible outcome of the bitter political contest now on.

The situation in Ireland seems to be increasing in seriousness. It is claimed that both the Ulster and the Irish adherents are preparing for the worst, and to keep a better hand on the situation the Eritish government has issued a proclamation prohibiting the importation of arms into the island. On the other hand, the acceptance by Premier Asquith of the suggestions of Sir Edward Carson—that the settlement by the government will not be humiliating to Ulster, that Ulster's treatment will not be different than that meted out to other parts of the United Kingdom, that Ulster may retail full protection of the imperial parliament and that the home rule bill must not be such as to lead to the ultimate separation of Ulster from Great Britain—the acceptance of these suggestions is counted a long step toward the peaceful settlement of the political crisis now awaiting the definite action of the administration.

Magazine Section

LITERATURE POETRY HISTORY and **INFORMATION**



The FARM BOY and GIRL SCIENTIFIC and **MECHANICAL**

This Magazine Section forms a part of our paper every week. Every article is written especially for it, and does not appear elsewhere

ding a Fortune in Fly Farming.

By HOWARD C. KEGLEY.

probably be called if her plan had not worked out successfully. Dreamer she was, no doubt, for that is what new-departurists are generally termed. Certain it is, though, that when Miss Ximena McGlashan, a California girl of 18, laid aside her Normal school diploma, abandoned her plan to teach, and undertook butterfly farming, she started something exceedingly worth while and uncov-

ered a surprisingly rich "pay streak."

Miss McGlashan took hold of the idea June 15, 1912, and on the first day of the following month she shipped 1,500 moths and butterflies, and received \$75 for them. During the next ten weeks she shipped

Method of taking Moth in Cyanide Bottle.

10,400 specimens to market at a flat rate of five cents each. That lot added \$520 to her bank account.

Numerous markets for butterflies have developed since this little California girl went into the business, but she sells nearly all of her output to one customera wealthy eastern physician who is re-puted to have the largest and most valuable private collection of butterflies in the world. This man has offered Miss McGlashan, for her 1913 crop, more than

an average bank president's salary. Since the day this little butterfly farmerette set out in pursuit of winged beauties with which to capitalize her ranch, high up on the side of the Sierra Nevadas,

she has converted her energies into profits which have averaged over \$50 per week, and this year her weekly income, is seems certain, will be nearly twice that amount. Moreover, since she took up the business her efforts have been so noteworthy that hunof the country-not only here, but in Europe, toohave adopted the idea, and many have already established themselves in the business.

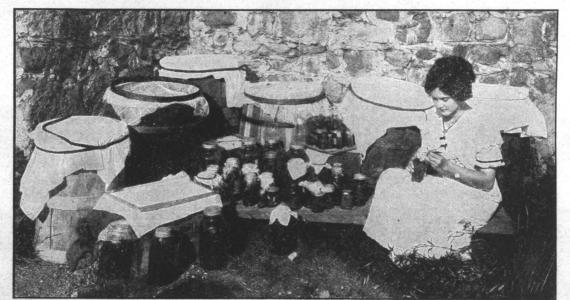
"Fly" farming might have come into its own long ago had not the few who knew how to handle the winged beauties bottled up their information and kept it hidden from the outside When Miss McGlashan tackled it she sought expert ad-Failing to get it, she went to the library and borrowed "Poole's Index," the "Butterfly Book" and the "Moth Book." With these



Female Moths are fed Plant Leaves while Laying Eggs in Paper Bags.



Examining Eggs in Test-tubes to see if any have hatched.



Feeding Larvae in Bottles, Jars, Boxes and Barrels, offering various Plant Foods to learn Preference.

cursion into butterflyland. It didn't take her long to solve the mysteries of the game, and she is now "one too many" for the entomological few who were her stumbling blocks in the beginning. Also, she has found it pleasant and profitable.

As soon as she found that the idea was worth while this girl began passing the good word along. Too generous to keep a "fat find" to herself, she gave many interested persons the key to her success. and today there are ambitious butterfly farmers all over the land. In the past ten months Miss McGlashan has received letters from 869 people who have declared their intention of going into the



Packing the Butterflies for Shipment.

In one morning's mail, not a great while ago, she received letters from interested parties in Mississippi, Missouri, Arkansas, New Mexico and far-away Italy. Also a money order for a parcel post shipment of specimens.

Theoretically, "fly" farming sounds like an occupation doomed to disaster in any place less sacred and secluded than the Garden of Eden, but in real fact it is practical in every phase.

Miss McGlashan's farm is a semi-perpendicular bit of acreage, mile-high, and well suited for an airship union depot site, insofar as altitude is concerned. Last winter there were exciting ski-races and enjoyable ice-skating tournaments in the

valley below her hearthside, and outside the walls of her butterfly incubator three feet of snow lay on the ground for many weeks. So it is perfectly safe to say that what this young woman has accomplished in California others can do most anywhere south of Baffin Bay

Moreover, the enterprise offers almost unlimited possibilities. Every fence corner, pond-edge and hog-wallow in the land affords its butterflies. Every orchard has its moths. Hundreds of specimens lurk in every vale, on every hill, and it is possible for enterprising persons to convert this hitherto wasted material into perfectly good money. Briefly, Miss McGlashan hands over the key to her success, in a paragraph:

"There isn't much to be made by catching butterflies and selling them. One must farm them for profit. Catch hundreds and raise hundreds of thousands!"

the average female butterfly deposits from hibernating." 100 to 300 eggs during its laying period.

By day Miss McGlashan catches "flies" with a net. She gathers eggs, larvae and cocoons from trees, flowers and shrubbery at night. Female "flies" she distinguishes from males by the shape of their bodies. The female is round, and fat with The body of the male is slender, and ordinarily terminates with a tuft of feathers.

may be done quickly by the sugaring process.

farmer takes a whitewash brush, or an old broom, and starts over her sugar route along the Truckee river, smearing the mixture on trees, fences, stumps and out-buildings. White cloth, sugared and tacked to trees, will often attract specimens which cannot be caught in any other way. Summer and early fall are the best seasons for sugaring.

As dusk deepens the farmer begins searching for "flies," which term includes both butterflies and moths. If there is much wind the "flies" will seek the sheltered side of their haunts, so it is well to note the direction of the wind before sugaring a route.

The main things needed in sugaring are cyanide bottles, entomological forceps, a carbide miner's lamp, and some paper bags,

a strong bullseye lantern, ap-Take proach the sugaring district at nightfall, blind the "flies" with the light, and then capture them by holding a wide-mouthed cyanide bottle under them and tapping them on the head with the forceps until they fall.

Cyanide is a powerful anaesthetic, and in such cyanide bottles as any druggist can rig up or such as can be easily homemade after the know-how is extracted from a butterfly book, the "flies" can be carried for about 15 minutes, at the end of which time they must be removed, else they will succumb. It is well to have one big bottle for a "morgue."

After capturing numerous specimens, pour them upon a paper and sort them. Place the damaged females in paper bags for breeding purposes, liberate the damaged males, and imprison the perfect specimens in the "morgue" for sale stock.

The work of mounting specimens is Sheet cork or linoleum may be easy. glued into cigar boxes, and the "flies" may be fastened therein by means of long, entomological pins manipulated by Never handle a specimen the forceps. by hand. To do so will render it unsalable. Pack the cigar boxes with excelsior so they will ship safely.

To catch caterpillars at night, spread newspapers or sheets under the bushes and beat the greenery with a stick. Place the catch in jars and assist them in taking nature's course to butterflyland.

Captive female butterflies will lay only when confined in gauze or paper bags containing their particular kind of plant food. Females should be fed each day with bits of dried apple soaked in honeyed and sugared water. Moths will deposit their eggs inside any box or bag. Place the eggs in test-tubes kept securely corked, and examine microscopically each day. Being impervious to cold, the eggs will keep for a long time. They should be kept in a cool place during the winter months, so that they will not hatch until their plant foods are ready for them.

Caterpillars will breed in a fruit or candy jar or a big barrel over which cloth can be stretched. Three inches of dirt or leaf mold should cover the bottom of each such caterpillar hatchery, and suitable plant food should be fed to the larvae each day. Some will eat one thing and some will choose the opposite. Introduce into the test-tubes, jars or barrels. bits of various kinds of plant leaves till their favorite food is discovered. Then feed that. The reading of a book on butterflies, the exercise of common sense in handling "flies" and eggs, and the patience to experiment for a few weeks, will make a butterfly farmer out of any earnest amateur

Says Miss McGlashan:

"Scientific study is not necessary at first. Some very successful "fly" farmers out his hands when he could not underdo not know the names of the insects they capture. At my home, nearly 7,000 feet above those who are on the level, I make him understand them. With the developed "flies" into a profitable enterfrom bushes in my line of work. Master foreign and partly because they resented could serve as interpreter, so she opened

Last fall when three feet of snow put her farm in cold storage, Miss McGlashan had more than 20,000 moth and but- the easiest question to answer. Miss Mc- efforts. terfly eggs stored in the cellar. They Glashan could sell all of her crop to one hatched last spring. She has taken more buyer if she chose to do so. than 100 larvae from a single bush in ten ter a justly-famous Philadelphia departminutes, has caught as many as 600 ment store paid 50 cents each for 500 than 500 "fly" eggs in a day. On her display of dress goods. The big tourist mile-high farm she raises several kinds hotels gladly buy specimens to liberate in Stocking the farm is a simple task. It of butterflies and one variety of beetles their dining-rooms on special occasions. that bring \$5 per specimen.

Mixing one quart of stale lager beer, will explain the making of a cheap cy- social functions. Jewelry manufacturers one quart of dark brown sugar and one- anide equipment. The remainder of the buy them by the thousands for use in half pint of Jamaica rum, the butterfly "fly" farmer's outfit is inexpensive, and making "butterfly jewelry," and "flies" easy to acquire. A "net" may be made for this purpose need not be absolutely with a loop of number nine wire, a tin perfect, either. Aside from the markets ferule and a bamboo handle, and a net herein mentioned, colleges and preparamade of bobinet or other light, gauzy tory schools purchase countless specimaterial. The cost of a butterfly-farm- mens for laboratory work. ing outfit is summed up as follows:

Total\$4.95

Last win-"flies" in a night, and has hatched more winged beauties to liberate in a window Fashionable society clamors for them to Any druggist, or an entomological book use in decorating for various kinds of

Butterfly farming threatens to develop



Peggy to the Rescue.

By ALTA LAWSON LITTELL.

T'S the last time,' said Jack darkly, his being there in the place of their dear-"Just let him come late once more, that's talk Miss Goodrich gave on America's op-Just let him."

"What did father tell you about taking care of your shoes," reproved Peggy, the Eaton school. "and what'll you do if he is late?"

do. Here we've missed our "Beet-Weeder," settle with him. a morning each week. Why can't he urged the boys to "get even." come on time like us Americans? He knows we'll get the half day off if no one mused Peggy, "they wouldn't even dare is absent or tardy; we boys explained it to hurt him very much, but they might all to him. Yet he just deliberately loses scare him so he wouldn't come to school it for us every week. We might forgive and it would be too bad for him not to him once or twice, but this thing has learn our language. I wonder if I could gone far enough."

looks scared all the time. Besides, you doing it, that's another story. I wonder know what Miss Goodrich said about Am- if I talked to him if it would do any erica's being the home of the oppressed and the melting kettle of the nations."

"Oh, no, we won't hurt him any," jeer-l Jack. "We'll just give him a sack of candy and a bouquet and ask him if he scared him or made him mad so he won't please try to do better next time. We'll make that young foreigner think that oppression is out of date with us and that we don't intend to be downtrodden by fellows that can't get to school on broke into a trot. time. What business has he here, anyway, in Bud Simmons's home?

"He isn't to blame if Bud Simmons's father lost his farm," said Peggy. "You as thrifty as this foreigner and hadn't been thing she had decided she ought to do, swapping horses all the time he never would have lost the farm."

"Well, anyway, we're not going to lose another half-holiday on that Jo Konarz' knocked on the kitchen door which she account," said Jack. "America for the had so often entered when Bud Simmons Americans, I say." He raced off shout- lived there. The door opened a crack and next issue. ing, "Hi, there, Bill," to a boy who had Mrs. Konarz peered out. just come out of a farm house ahead of grandfather had left County Cork just 50 to ask why Jo can't get to school on There is a gift that each must give him-

a handkerchief. All through the day's session Peggy's eyes kept wandering to the stolid faced the school. Jo who had just come among them. He was the one strange element in the school way he shrugged his shoulders and spread stand them. In fact, they had made no particular effort to understand him or to foreign repeis and i in not going to begin.

make him understand them. With the Turning to the barn she pointed and heartlessness of extreme youth they simnly ignored him, partly because he was derstood that her son was within and

Who closes eyes, ill luck will sure betide,
Who closes eyes, ill luck will sure betide,
Who closes eyes, ill luck will sure betide,
Who closes eyes in luck will sure betide,
Who closes eyes in luck will sure betide,
wide particular effort to understand him or to foreign rebels and I'm not going to begin."

kicking a frozen clump of earth sav- ly beloved Bud Simmons. Peggy, alone, agely as he hurried along to school, had grasped dimly the meaning of the portunity, and wondered if there was not some opportunity for action right there in

She watched Jo stump off down the "What'll we do?" threatened Jack road at night, his impassive face giving "You just wait and see what we fellows'll no sign that he saw the dark looks of the We'll lay for him after school and boys or heard their shouts of "Hunky," "Spoil-Sport." Friday half-holiday for four weeks now and a few of the girls tried to stop the just on account of that Hunky being late shouts but for the most part the girls

"I suppose the boys wouldn't kill him," do something. You're always reading "Oh, Jack, you wouldn't hurt him would about someone doing something in a you?" pleaded Peggy, anxiously. "He story, but when it comes right down to good? Jack said they explained to him, but I know how boys explain to each other. I'll bet they told him they'd bump his head if he was late again, and that doesn't care. Women and girls are ever so much more tactful," she concluded sagely. "I believe I'll try." sagely.

With this virtuous intention Peggoty

But Jo, on looking over his shoulder and seeing a girl running after him, took to his heels and soon disappeared in his father's barn. Peggy, though distressingknow father said if Bud's father had been ly timid at heart, never flinched from a and was not to be beaten. She turned into the yard, called Jo two or three times and, when he did not come out,

"Good morning-I mean good afterthem, entirely forgetting that his own noon," said Peggotty, politely. "I called

But Mrs. Konarz only stared and gave the shrug with which Jo so often favored the school.

Self;

Gold cannot huy it for it has no price; the school fade with years, it makes of earth

"Stupid," thought Peggy; "I knew she couldn't speak a word of American, and and the children could not get used to there's that Jo peeking out at me through his odd ways, broken English, and the a crack in the barn and I suppose he won't budge a step till I leave. Yes, he shall, too," she vowed determinedly. "We Americans have never been beaten yet by

Dollars may simply be plucked ply ignored him, partly because he was derstood that her son was within and

less admiration and brought Jo sulkily forth. Then, having further addressed her son at length, Mrs. Konarz slammed Where to find a market for "flies" is the door apparently well-satisfied with her

Now that she was face to face with the boy, Peggotty didn't know how to begin. She had never talked to him, for, though she was determined enough once she had made up her mind to a thing, she was naturally shy. She almost decided to offer him the apple left in her dinner pail and take to her heels. Then she considered how silly that would be and stood her ground. "Why can't you get to school on time, Jo?" she began.

Jo regarded her stupidly and shrugged his shoulders.

"Dear me, now he's going to be contrary, like he is with Miss Goodrich sometimes," thought Peggy. "I know he understood me, and he's just got to answer.

Then began a battle of wills, the determined, quick-witted little American girl, against the ignorantly stubborn, slow-minded Hungarian lad. Jo, suspecting a plot in everything, fearing everyone of this alien race, was determined to say nothing which would incriminate him. Peggy, anxious to save this boy a drubbing if she could do it, was determined to show him that he must get to school on time. More than once Peggy, exasperated by Jo's stubbornness and the irritating shrugging of his shoulders, was on the point of giving up and letting the boys settle with him. But she had a strong streak of that same stubbornness herself, and was enough of a dreamer to want to carry out those vague ideals which had been planted by Miss Goodrich's earnest talk on the duty of America to her adopted children. In the end, the better trained mind conquered and it was a very much excited Peggy who dashed into her own kitchen an hour later to explain her tardiness to her mother and Jo's similar failing to Jack, all in the same breath.

"He has to milk eight cows and his father is sick in bed and there's the pigs and the horses to take care of. I stopped to see why Jo was late to school, mother dear, and if you boys dare to touch him, I'll have father tend to you, so there!' she panted. "You ought to be ashamed of yourself to pitch into a poor boy who is anxious to learn our language and only has cabbage soup to eat at night, Jack Ryan. What is this country for, I'd like to know."

"Aw, how did we know he had so much to do," said Jack crossly. "He never talks to us."

"I guess he talks to you as much as you talk to him," said Peggy. "I'll set the table as soon as I wash my hands, mumsy." And, humming "My country And, humming "My country, 'tis of thee," Peggy bustled about the kitchen making up for lost time.

It was with much satisfaction that Peggy heard Jack at the 'phone as she dried the supper dishes

"I say, Bill, we'll have to call off that battle with the foreigner," he said. "Peg stopped there tonight and he's in bad luck. His father is sick and he has all the chores to do. Don't get anything to eat but cabbage soup, either, Peg says. Can you beat it?"

There was a pause; then, "Sure I could help with the milking. You call up some of the other fellows and we'll meet there tomorrow morning at seven o'clock. That ought to get him around on time.

"Well, we're sure of one Friday afternoon," mused Peggy in the kitchen. And she dried the dishes with a satisfied

Editor's Note.—This is the first number in a series of young folks' short stories. Make the acquaintance of those interesting characters, Jack and Peggy, preparatory to enjoying the second number—a Christmas tale—which will appear in the next issue.

THE GREAT GIFT.

For one who has it a small paradise.

Wise is he who gives himself this gift
When he is young, for joy it can impart
To all his life and others who know him:
It is a simple gift—a sunny heart!

CHANTICLEER AND SIR REYNARD.

His mouth when he should keep it shut!

Corn-stalk Furniture for Doll's House.

By MARGARET P. BIGGS.

to mind a very happy time when we were a little higher and putting on arms. children on the farm. It was in the fall husked and the stalks drawn to the barn for winter use, that we children busied the mirror that swung on pins. ourselves taking off the three or four top joints. From this we cut the tassel and of cornstalks you can soon furnish a stripped off the leaves; then with a ruler, doll's house. The materials are easily a sharp knife, a paper of pins and a small gotten, for no farm is without corn, and piece of hardwood we commenced the even in the small city gardens many peomaking of our doll furniture. If the stalks are still green and juicy it is best to dry easiest to work with, but small splinters them thoroughly to prevent the shrinkage of wood or pieces of toothpicks make common to all unseasoned material.

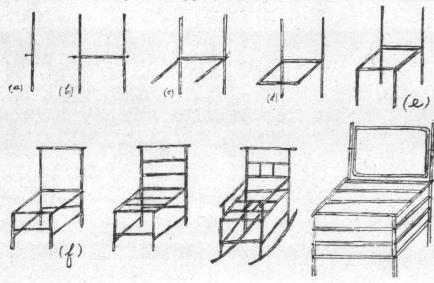
The ruler is necessary that every piece

The doll house and its furniture brings stalks for rockers, or by making the back

With this material you can make alof the year, while the corn was being most any piece of furniture. We made a bedroom set and put on the dresser a lit-

With a little ingenuity and a number ple have a small corn patch. Pins are the more attractive furniture.

Children eight and nine years old can



be cut to exact measurement. The sharp do this as well as grown-ups. knife is used for cutting the stalk, and it it. A set of this furniture would gladden is very essential that the material be cut the heart of any girl at Christmas time. evenly, else your furniture will not stand straight. The hardwood will serve as the cutting block. The pins are used to fasten the pieces together, and also decorate the articles.

ed is a chair. We will assort the stalks and color as we can. For the common chair, cut two pieces 4 in. long and ten from the end intended to be uppermost, a day. pieces lengthwise on the pins, being carepieces together; then put two pins through the 4-in. pieces where the 2-in. piece is fastened, as at (c); (this means that two pins in the 4-in. piece must cross, or come chance very near each other, and it requires careful work to keep from splitting the stalk); now run two 2-in. pieces on these little mark left by a puppy tooth. pins and your chair looks like (c); pin these sides together with another 2-in. boy piece and you have (d). The next step

Just try

SPICE, THE SHOPPER.

BY M. PELTON WHITE.

Spice and Allspice were two puppy About the first piece of furniture need- brothers belonging to Wally Walker. They were fat and round and soft and and get the materials as nearly of a size black and silky and looked as much alike as two peas in a pod.

I know you're asking this very minute pieces 2 in., four 1% in. and one 21/2 in. how they came to have such queer names, long. Now take your 4-in, pieces and put and I'm going to tell you right away, for a pin through the middle of each, 21% in. I'm sure you'd never guess in an age and It was because they nipped and as indicated at (a) in the accompanying bit Wally-sometimes making the tears illustration. Next put one of the 2-in. come in his eyes-with their wee sharp needle baby teeth, just the way cloves, ful to run the pins straight through the ginger, pepper and the other spices nip-stalk, as at (b). This ties the two 4-in. ped and bit his tongue. Oh, no, I don't ped and bit his tongue. Oh, no, I don't mean to say the puppies ever bit Wally's tongue, though I haven't a doubt they would have had they been given the

"What's the matter?" inquired Mrs. Walker as she noticed Wally rubbing a

"It stings like spice," complained the

"Suppose we call him Spice." laughed



Spice, the Shopper, learning to carry his Market Basket.

(e) is to put the front legs in place, and his mother; Wally laughed, these are the 1%-in. pieces. will then be very shaky and dilapidated. Now pin your 21/2-in, piece across the top of the backs, allowing the ends to project 1/8 in., (f). The next move will be to fasten the legs together with the rounds, laugh. placing the ones on the sides a little lower than the ones at the front and back (this started to tell you-how Spice learned to will make the chair firm and strong) and shop and the funny trick he did one day. you have (f). Now with two pieces in the seat and two in the back, as in (g), your

Your chair thought it a very good name.

"But what shall we call the other pup -he's all spice, too!"

"Call him Allspice," advised Mrs. Walker. And then you may be sure Wally did

But I'm quite forgetting the story I

While he was still a young dog Wally taught him to carry a basket, one of plain chair is completed. This style of those small grape baskets. Of course, at chair is the simplest and easiest made. first he wanted to chew the handle and first he wanted to chew the handle and You can vary the style by using bent tear it to pieces. But his master scolded



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WANTED MAN to learn to superintend in factory, or sales man. Must be able to take small interest, if able to fill place. Will take farm land in payment. Address "Factory," 605% Chicago Ave., Ypsilanti, Mich.

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MEN OF IDEAS and inventive ability should write for new "List of Needed Inventions." Patent Buyers and "How to Get Your Patent and Your Mesey." Advice FREE. RANDOLPH & CO., Patent Attorneys, Dept. 67, Washington, D.

him and took the basket away from him at the heels of Mrs. Walker and Wally. knew what was expected of him.

Whenever any of the family went to market Spice was usually invited to go tail-a dog's way of showing pleasureand hurry to the back porch for his basket, which was kept on a bench where he could reach it.

dinner into the basket, intending to dump the waste into the garbage can later. Mrs. be off. Walker wanted something from the store and sent Wally for it. Of course, Wally invited Spice to go with him. The dog scampered in great haste to the bench for his precious basket. It was full to overflowing, even the handle was covered up. Though he pawed and whined and nosed it, he couldn't get a good hold.

Wally was waiting at the front door and whistled for the dog to hurry. Poor Spice! He rushed to his master and gave a little yelp. But Wally didn't understand and made him go back.

Catching hold of the basket with his teeth the dog managed to drag it to the front door, leaving a trail of potato peelings, tomato skins and corn husks behind him. Jane was quite out of sorts, but Mrs. Walker said the dog should not be punished. He had done the best he knew, which was what he had been taught to do.

But not long afterward Spice did a trick that no one had taught him. During the hot August weather the Walker family ate very little meat. Everyone seemed to forget that a dog likes a big bone now and then to sharpen his teeth on. A bone is as good for a dog's teeth as a nice hard crisp crust of bread is for your own. It keeps them firm and strong.

Each morning Spice, carrying the little basket, trotted to market, following close the shopper.

THE CHRISTMAS TOY SHOP.

BY ALICE J. CLEATOR.

Now is the time when shops are grand Like open doors to fairly-land! And glittering gayly 'mid them all Are toy-shop windows wide and tall.

And pause—and stop—half hours—or And some look up with eyes alight, And some with faces wistful, white.

Such trains of cars that look at you As if about to say, "Choo! Choo!" Such Teddy bears, the "finest made," "Imported"—just the proper shade.

Such woolly lambs and tigers, too, Enough to stock a nursery "zoo."

And dolls whose outspread arms would say,
"Please take me home with you today!"
And "Kewpies," too, that "can't be beat,"
And everything that's cute and sweet!

O, yes, the shops are very grand, Like open doors to fairy-land! But, O, the dearest of them all Are toy-shop windows, wide and tall!

A PLEA FOR THE CHRISTMAS TREE.

BY F. A. W. The Christmas tree, robed in all of its

glory of tinsel and tin, pop corn, fruit and

candles, is dressed in its funeral gar-

vices. Words of praise and songs of idol-

ization constitute its obituary. In a short

ing and for protection to the wandering

The joy the Christmas tree brings is

not an appreciated one, and is only the

petual Christmas tree, dressed in its hol-

purity and joy-and the green which sig-

nifies hope and immortality. It grows

or homeless animal or man,

bles, does not seem becoming.

The Christmas songs and the

pigs t

ments.

here the children's steps grow slow

each time he acted badly, so the dog soon As usual they went to the grocery store first. But what was this? Spice didn't know what to make of it. Why didn't they go to the shop next door where the along. "Want to go to the store?" Wally man in white apron and coat put brown would ask him, and Spice would wag his paper packages in his basket? The dog knew well enough those brown papers held meat. Knew, too, that some of it belonged to him; yet he never nosed them, or stopped to talk to other dogs Once Jane, the maid, put the refuse on the way home. Sometimes a strange more like a little tremulous squeal than from the vegetables she was cleaning for dog would try to stop him, but a deep growl usually warned the intruder to

> Several times Spice tried to lead the way to the butcher shop but was always called back. However, one morning when Mrs. Walker was buying some corn and showing Wally how to tell when the ears were fresh and good, Spice slipped away. They whistled and called, all to no purpose. Just as they started for home the dog came tearing out of the butcher shop. He hurried to his master and dropped the basket at his feet. In it was a brown paper package.

shop, laughing heartily. He said the dog that day forth began to bray as loud and came into his place and followed him as frequently as possible. If his young about while he was waiting on a customer, whining and making a great fuss. At last the butcher wrapped up a bone the whinny of his friend. No sound came and put it in the basket. Away went to his ears that he did not feel called up-Spice.

Mrs. Walker said she thought the dog could be taught to go to market himself. So the next day she wrote a note, wrapped it about a coln, put it in Spice's as the farmer's family night and day. basket and sent him out with it. Sure enough, the dog went directly to the market, returning shortly with the meat in the basket.

Little boy, little girl, if you should ever And now Jim was left alone. Sadly happen to be in Wally Walker's neigh-deed, did he miss poor, simple Jack. borhood and met a big black dog, all by himself, carrying a basket in his mouth, you may be pretty sure that it is Spice,

the temporary but appreciated joy of men have a little, for I heard our master longer use, let it be shaped by the hand folly." of man into shelters from the angry weather for his kind and his kine.

Trees are getting scarce. The school yard needs one; the door yard needs one, and the road side needs one. Let the work and pleasure of cutting the tree, stealing it into the house unseen by the children. setting it up and-in stocking feet, with whispered voices and quiet motionstrimming it after the children have been put to bed and have gone to sleep listening to tales of Christmas mythology, be Such kangaroos and elephants, devoted to placing trees in needed places His Wii And pigs that squeal and bears that where they will stand as almost everlast- the boy?" ing monuments of pleasures and energies expended.

The symbol of the winter holidays, the the Doctor Comes,' and I must hurry up Christmas tree, like the symbol of our before she does it." patriotic holiday, the fire-cracker, is dangerous. Both keep the city fire departments busy and help to fill hospitals, and both will be discarded when we all understand the true spirit of these holidays, and when we understand that, as now observed, they are destroyers of human and natural resources.

LITTLE FARM FABLES.

BY AUNT QUILLIA.

False Praise.

shouts of joy are part of its funeral ser- lived on the same farm became exceedingly good friends. As neither had arrived at the working age they were altime it will be cast upon the dump most constantly together in the pasture. heap as a useless thing, a thing that the If Jim found an unusually sweet and tenhousewife is glad to get out of the house, der stretch of grass he would call out in and the evergreen will be green no more. a delightful little whinny, begging his That this tree, which nature builds friend to come over and share it with slowly but lastingly, which is kept cloth- him. Jack sometimes did the same, halled in her summer greenness as a reminder ing his companion, however, in a very that the silent life is not dead but sleep- strange unmusical voice.

At this the colt, being of a fine nervous the clothes line this blessed minute." and sensitive to all impres off from further service by the clip of the sions, would sometimes inwardly smile, ax does not seem in keeping with the but at the same time would say, "Poor spirit of the holidays. That this stately Jack! he can't help it, and though coarse tree should be taken from its natural en- of constitution he is really kind at heart vironment to man's house, there to be be- and, being the only young equine on the decked with glittering and glistening foi- place, he is all the comrade I have."

One day he heard some boys, who had come down from the city to spend a part of their vacation on their uncle's farm,

joy of days. Rather let it serve as a per-making fun of Jack.

petual Christmas tree, dressed in its hol- "Yes," said one of them in reply to iday clothes of white—the symbol of light, his brother's criticism, "Yes, his ears are enormous, all right, and his build is clumsy, but that voice, Tom, that takes the more stately every year. Let it serve to cake! I believe it would wake the seven mankind years of joy and of protection sleepers, whatever that may mean.

At this both boys roared and passed from the icy blasts of winter and the hot rays of the summer sun. And when the out of sight going toward the woods day comes that it should fall, let it give where the wild raspberries grew.

And now, more than ever, were Jim's sympathies aroused. Debating -within himself how he could best heal his friend's wound in case he, too, had overheard the remark, he resolved to be a little false in his attempt to comfort him.

Going over to where Jack was contentedly nibbling the grass, he began: "I don't know that you heard me call a few moments ago as my voice is so weak and feeble. Indeed, it sometimes seems to me anything else, reminding one of nothing so much as that of the screech-owl who visits the oak over yonder of nights. To be sure, my young miss seems to like it, and always takes my nose in her hand when I whinny. But that is all the compliment I ever receive. Now with you it is different. You can be heard all over the pasture, or the farm for that matter, and I have noticed that people invariably seem transfixed at the sound of it; for instance, those boys who just passed. Nature certainly has favored you in the compass, tone and quality of your voice."

Jack, naturally conceited, felt immense-The butcher stood at the door of his ly flattered over these remarks and from master appeared with carrots for them, up went his bray, completely drowning on to answer, from the crowing of a cock to the whistle of a distant engine. In short, he became an unmitigated nuisance, disturbing all other stock as well

> So intolerable did he become at last that his owner, in desperation, sold him to a lumberman, who carried him off to the woods.

> And now Jim was left alone. Sadly, in-

One day as he was feeling more lonely than usual his mother came over to where he was, saying, "My son, I am sorry at your mistake. You are not supposed to possess moral sense, but you should have some horse sense. Even some

SMILE PROVOKERS.

"No: I don't care to run for office." "What can they rake up on you? You never did anything criminal."

"No, but I had a lot of poetry printed when I was a youngster."

The Doctor-"Mrs. Brown has sent for me to go and see her boy, and I must go at once."

His Wife-"What is the matter with

The Doctor-"I don't know, but Mrs. Brown has a book on 'Wnat to do Before

A Centralia man found it advisable to put on a ragged suit of clothes in order to repair some machinery, After he had finished he went home to dinner. He met a tramp coming out of his front gate as he went in. The tramp mistook him for a knight of the road. He held up a warning hand. "Duck it-retreat," cautioned the tramp. "I've just tried her and she's a regular bear-cat." But the lord of the manor marched right in.

They were telling how well they could A yearling colt and a young mule that shoot and Tom Dawson recalled a duck hunt in which he had brought down five birds with one shot.

"Talk about shootin'," began old man Tilford. "I saw Jim Ferris do a mighty neat piece of work one day. His wife was puttin' out the washin' and she was complainin' about the pesky sparrows makin' dirt marks on the damp clothes with their feet."

"'They're thick as bees round here,' says she. 'There's seven of 'em sittin' on

says Jim, 'em, takin his shotgun which he allus keeps loaded with fine bird shot. He tiptoed to the door, took aim and-"

"Killed every one of them sparrows,"

broke in Dawson.
"You're wrong," corrected Tilford calm-"He never teched 'em, but when his wife took in the washin' she found she had three pair of openwork stockin's and a fine peekaboo shirtwaist."

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A Toast to Old Age.

ought to fit one to write on any subject ed, and being happy they have kept on demand, from higher criticism to the young in heart. tango. But someway, old age eludes me. And it is not that I have not been thinking of it, either. I found the first gray hair, and six months later found the proverbial seven.

Not that I dread old age either. A beautiful old age is the one bright thing in they become masters. life to look forward to. If one could only be sure of its being beautiful! But so many of us reach middle life without thinking about old age at all, or considering whether ours shall be beautiful or ugly. And then when we are forty it is our later years the sort we want, if we

my readers picture. A beautiful old age does not mean to me an age of ease and be to me the very opposite of beautiful. For I can not imagine any beauty in a life devoid of activity or responsibility of any sort. By a beautiful old age I mean the age which has learned calmness, dignity, poise, charity, sympathy and understanding, to which younger and more harassed folk may turn for counsel that will be safe and sane. And to reach that end one must travel by the road of self-control, a highway that so few ever find and those few stumble upon so late in life.

I am glad that the ideas about old age have changed so greatly in the past few I was a girl being old meant to be entirely out of it. When a woman got old she was expected to step down and out in her own home, to accept the rulings of content. her own children. She was not to wear pretty colors or stylish clothes or to pay any attention to her hair or nails; teeth she usually had lost long before and now not expected to take any interest in this glass ornaments. "conversation was might express an interest in, "the wayand dances, those subjects required a had taught them, the sons knew better.

the times, and they keep their hold on making decorations for the tree. He is a man who decided when he was these with tinsel glued on, they were 45 to let his daughter support him. He quite as pretty as similar ornaments sold stopped work, sat down by the fireplace for five cents each. at home and browsed over the daily papers and cheap magazines. Idleness did this duty was left to the children who did slumped from a clean, vigorous man into o'clock Christmas Eve the door was opena slovenly old dotard who would not ed and the parents were asked to come change his linen unless compelled to do in. The children's handiwork on the change his linen unless compelled to do in. The children's handiwork on the The boy with his first watch, whether so by someone of stronger mind. Today trimmed and lighted tree burst upon their he be 12 or 20, likes to keep it in good at 65 he is practically an imbecile, just vision for the first time. Only the presthrough inactivity.

on working. Many could long ago have children did not enjoy the tree any the his last name on the front, and button-stopped so far as enough of this world's less the next morning, when all marched hole the edges together with silk of the some of the good things of life their hard- on the lower branches and on the same pretty. ly earned money can buy them. But they have never for one moment admitted that

HAVE been asked by one of my read- they had any right to stop work, to stop ers to write a toast to old age. Some- fighting, to pamper themselves just behow it seems hard for me to do, cause the years are creeping upon them. though why I don't know. Five years' They have kept busy, and in keeping service on the staff of a daily paper busy they have kept happy and content-

They have lived, and having lived they are ready to counsel the younger ones I have even dreamed who are just trying to learn how to live. about it since that day a year ago when And the counsel always begins with the warning to self-control; control of appetites, passions, ambitions, all three beautiful when mastered, but dragons when

I have the ideal old age constantly before me. My one wish is to reach it. Unselfish, yet not slavish; meek, yet dignified; patient, yet insisting upon justice; slow to anger, yet filled with righteous wrath at evil; always busy for others, but such a hopeless thing to attempt to make neglecting in no way the personal wants; saddened at the present want and sufferhaven't been planning for them all the ing, yet confident of God's ultimate triumph; temperate in speech, dress, food Now by beautiful I may not mean what and drink; keenly alive to the present without deriding the past; ready to accept new truths, active, cheerful, sane, indolence and freedom from all care what-soever. Indeed, such an old age would as it has been reached by one before me -my mother.

DEBORAH.

CHRISTMAS DECORATIONS.

BY MRS. JEFF DAVIS.

IRST of all, have the Christmas tree if you possibly can manage to do so; no matter how small it may be, the children will appreciate it and look back upon it when they grow up, with many fond memories.

Select a room that is shut off from the main living room and parlor for the tree. years. Why so short a time ago as when By this arrangement the house is not made untidy by the inevitable clutter, the tree can remain as long as desired and the children may enjoy it to their heart's

Unless you can have colored electric lights, it is much safer to do without tree lights. The tree can be made very bright and attractive by brightly colored must put up with the store kind. She was glass balls, "icicles" and other bright

It isn't always the surest way to the world, her "conversation was to be It isn't always the surest way to the above." Religion was the only thing she pleasure of children to do everything for They like things best sometimes faring man, though a fool," might under- in which they have had a hand them-stand that. But as for politics, suffrage, selves. Half of the fun of a Christmas higher education, eugenics, modern plays tree lies in the decoration, so the children should not be excluded. One family found strong mind to understand them. Old out this truth for themselves, and solved men, too, were quietly thrust to one side the secret of prolonging the Christmas by their sons. No matter what the years spirit in the home by the following plan. pots. A way to vary this idea is to place The family consisted of the parents and Now, how different. Our old men and three children, two girls ten and twelve of the pot before putting in the cream, women of today do not give up and sub- years old, and a boy of eight. The long and after grating sweet chocolate over mit to being shoved to one side by the days of waiting before Christmas were the top to look like earth, stick a piece of rising generation. They keep abreast of filled with pleasure for the children in evergreen in the ice cream to stand for a These affairs until the Grim Reaper forces them were easy to make and varied in characto give up. Better to wear out than to ter, and were quite as effective as the rust out, is the motto of the modern boughten ones. They strung red and CHRISTMAS GIFTS FOR THE WOMAN old folks, and it is this motto which white pop corn, cranberries, peanuts, and WITH LITTLE LEISURE. keeps them perennially young. I know made candy holders from gilded paper, a great many men and women who are and tarlton. They pasted paper chains. old so far as years go, and of all that and cut out bells, heads, figures, etc., number I know but one who is really old. from old fancy post cards, and decorating

its work. It was not long before he had it the day before Christmas. At six ents for the parents, which were on a On the other hand, the beautiful old table covered with a white cloth beside folks I know are the ones who have gone the tree, were given out at this time. The goods were concerned. And they have into the room and their presents were same shade as that used for the initial. eased up a bit and taken time to enjoy distributed, having been later arranged Brown or leather color are especially white table.

This greatly simplified the day, too, for,

the parents having received their presents the day before, Christmas Day was left entirely for the children as it should be Try this plan, and you will see that your children's interest in the tree will increase fifty-fold.

A charming wall decoration is to suspend wreaths of holly or other greens at alternate heights, a short, a long, and a short, etc., by double loops of Christmas greens hung from picture hooks on the molding.

People usually have boxes stored away and certain kinds, like handkerchief, collar, glove and candy boxes will suit many gifts. Remnants of wall paper may be bought cheap, and the covering of the box is not hard work. Library paste is best for this purpose. Another idea is to cut out figures from cretonne or other cloth and paste them neatly on the white box. These pretty boxes are prized by the recipients, and will be useful after Christmas is over.

A simple Christmas centerpiece can be arranged with three immense sticks of white and red striped candy. Arrange them as a tripod and tie together with a big bow of red ribbon. Fill a small, fancy dish with Christmas bonbons or nuts and raisins, place it beneath the tripod and surround it with sprigs of holly.

A horn of plenty makes a very attractive centerpiece for a Christmas table. The horn may be made of hoops, the largest at the mouth of the horn, the others growing smaller at the pointed end. Lengths of wire run across the hoops, arranged so that the hoops will stay in position, or slender strips of wood may be used. Cover with bright colored cambric, and decorate with gay ribbon. Around it pile Christmas greens. The horn must be literally full to the brim with gifts and greens.

Another pretty scheme for the Christmas table is made of pine cones. Around the support, woven of farily strong wire, pine cones are grouped, each cone fastened to the support with fine wire to form a basket. Within the basket to concea the wire outlines, pine is arranged, affording a charming background for the white of the freshly popped corn, piled high in a deep dish placed in the center of the improvised basket. A single sprig of pine tops the center of the pile. A star outline of pine, grouped uniformly, completes the decoration, which is unique and beautiful.

An old but a good hint is to use raffia instead of ribbon for wrapping Christmas gifts. It is much less expensive and quite as pretty, and strong enough for outside strings of packages sent by mail.

Ice cream for the Christmas dinner, or for the children's Christmas party is often prettily served in new, tiny flower a raisin, or nut in the hole in the bottom Decorate this tree with bits of tinsel or red ribbon.

BY L. M. THORNTON.

T any ten-cent store purchase a small bell-ornamented child's harness and remove the bells. Using crimson yarn, not too fine, crochet the harness part, using the purchased When the time came to trim the tree one as a pattern. Fasten the bells to the yarn and you have a gift much prettier than any you could purchase for many times the price.

For Tom or Fred or Harry.

condition. Make him a small chamois bag in which to keep it nights. Cut the bag just large enough to hold the watch, embroider his monogram or the initial of

A Moth Sachet. For friends to whom you want to give

CushionShoes that relieve fender feet

Mayer Yerma Cushion Shoes are worn by people for comfort and relief from troubles due to sensitive feet. A soft quilted sole is built in so as to conform to the lines of the foot and absorb the jar of walking. Resists dampnesscool in summer, and warm in

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Best granulated cane, if ordered with \$10 worth our other groceries, or 50 lbs. for \$1.50 if with \$20 grocery order; Toilet Soap, worth 25c, only for 3 large cakes; 12 bars best 5c Naptha So 35c; 3 cans Baked Beans with pork, 23c; 6 Tea, 39c; 40c Baking Powder, 17c and

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PURITY BEDDING COMPANY BOX 244 U. NASHVILLE TENN



WHY NOT HAVE BEST LIGHT Steel Mantle Light Co.330 Street Toledo, O. handkerchief or box of letter paper, try a moth sachet which is easily made, useful, ornamental and new. Secure small Japanese paper napkins of dainty colors form of a sachet and in it place several layers of white cotton between which you have sprinkled the moth powder. This powder is made by adding 20 drops of oil of cedar to one ounce of prepared chalk and mixing it until thoroughly combined. Tie the sachets with pretty ribbon and if possible send in a holiday box that closes rather tightly.

For the Housewife.

A pretty blank book in which she can write her favorite recipes makes a gift any housewife would be glad to receive. For the Young Girl.

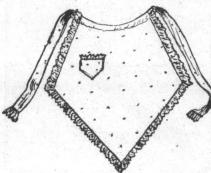
An ordinary purchased gift seems to lack the "Christmassy" flavor, but as a present for the young girl nothing is nicer than a pretty pair of silk hose. Try embroidering her monogram or initial on the top of each stocking, or if you have the time, a scattering of daisies over the instep and front of the ankle.

A Dainty Hat Bag.
For the friend who travels make a pretty bag of black heavy-weight taffeta silk, using one of the bags that comes from your milliner's as a model for size. In the hem at the top draw a silk cord with which to close the bag after it is in use, and about three inches below this hem work the owner-to-be's initials in bright silk. On train or boat one never knows how to keep a pretty hat from being spoiled by soot and dust, but safely ensconced in this bag it can be laid in the rack above the owner's seat out of the way and sure to be none the worse at the end of a hundred-mile journey.

A ONE-PIECE APRON.

BY FLOY SCHOONMAKER ARMSTRONG.

This pretty and easily made apron requires one and one-fourth yards of polka dot percale or lawn. Edge the apron with scalloped embroidery trimming, called sticker's braid, which comes in colors on



white ground, and select a braid to match the color of the dot in your apron material. Put a narrow facing along the waist line. The apron may be short or long, to suit the fancy of the maker or person who is to wear the dainty

CHRISTMAS HINTS.

BY MRS. MAY PEINTNER.

HY not remember some children this Christmas who get presents from no one else? For quite small children, picture blocks are nice and can be made at home. I use small pictures of animals, flowers, birds, etc. Cut out and paste on small wooden blocks the same size as the picture.

The nicest washcloths I ever used were some given me last Christmas, made of six thicknesses of white mosquito netting. White mercerized cotton was crocheted around the edge with a buttonhole stitch.

Very cute little baskets for the children can be made by cutting around large oranges, only leaving enough for handles, then scrape out the inside, fill with candy, or nuts, or cherries, etc.

making chocolate or three tablespoonfuls of juice from apple sauce. This makes a very pleasant flavor.

A perfume bag to keep moths away is made as follows: One-half ounce each of cloves, nutmeg, caraway seed, cinnamon, and three ounces of orris root. Grind to fine powder and place in small bags. These bags placed in clothing or drawers will impart a very pleasant odor and keep moths out.

The children will appreciate this honey Pour over a pint of white sugar enough water to dissolve it; add four tablespoonfuls of strained honey. Boil until hard enough to crack. Pour out on greased pans and let remain until nearly cold. Then pull on a hook.

In making drawn-work collars, I do not without tunic, with high or natural waist line. The above patterns will be mailed to any address by the Fashion Department of the Michigan Farmer, on receipt of ten cents for each.

something inexpensive, and yet not a use embroidery hoops; instead, after pulling the threads, I sew firmly to a piece of stiff cardboard, then cut away the card from beneath the threads and you have it ready for work and firmly stretched. or holiday brightness, fold each in the Do not remove until entirely finished and your collar will be perfect.

HOME QUERIES.

Direction for a baby's crocheted jacket have been received for Mrs. T. V. and will be forwarded to her on receipt of a self-addressed and stamped envelope

Household Editor:—Will you kindly tell me how to clean grease spots out of tan dress goods, serge? I have tried to get it out with chloroform but it spotted it and did not take out the grease.—Mrs. E. P.

Wash the dress as you would any woolens, with warm water and a good wool soap. If it is a good quality of serge, the washing will not harm it. The serge in small boys' suits washes like cotton.

Household Editor:—How do you make bread-sticks?—Cook.

Take a bit of your bread sponge and beat into it the stiffly beaten white of one egg and two tablespoonfuls of butter. Stir stiff, take up small portions of it, form into little balls and roll out on the board with your hands until about a half an inch thick. Let rise and bake in a hot oven.

Household Editor:—About how large should a little pig be for roasting for the Christmas dinner?—Molly B.

Choose a pig about three weeks old Household Editor:—Will you please tell me how to remove a prune juice stain from a dark blue messaline waist?—Mrs. J. W.

You had better send the waist to the cleaners. I have never been successful in any attempt to remove stains from silk.

any attempt to remove stains from silk. Household Editor:—I am troubled with cock-roaches in my house to quite an extent. Have tried several so-called preventives, either to kill them or drive them out, and have not met with success. I would like to inquire, as a subscriber, if any person has been troubled with cockroaches and has found a sure-shot remedy, one that kills or destroys them or drives them out forever? If anyone knows of any remedy that will permanently destroy them I would like to know it.—H. T. M.
Write to the Department of Agriculture

Write to the Department of Agriculture at Washington for a bulletin dealing with the pests.

Household Editor:—Can any of your readers please give a pattern for a crochet bed spread? What must we do to get rid of weeds and have a nice lawn?—Mrs. M. W.

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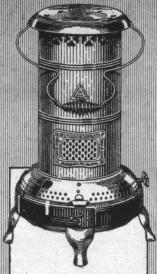
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Farmers' Clubs

THE ASSOCIATIONAL MEETING.

the Capitol building at Lansing on De-

The meeting was opened promptly on schedule time by President McBride, the morning session on Tuesday being Jevoted as usual to the routine work of payment of dues and presentation of credentials and resolutions. The appointment of committees was scheduled for this session, but the president asked for more time to acquaint himself with the delegates and learn who was present. The afternoon session opened promptly at 1:30; the music for this session was provided by the pupils from the School for the Blind at Lansing. Following invocation, the report of the Associational Secretary was given by Mrs. C. P. Johnscn, which was in part as follows:

"The Farmers' Club movement is steadily gaining ground, and your secretary has only cheering messages for you. Last year we reported 114 Clubs, from 28 counties. Brighton, Livingston county, Groveland, Oakland county, and Surprise, Saginaw county, failed to survive the winter that gave Oxford, Oakland county, new life; Norvell is reported in the most prosperous condition in many years, and we gladly report Arbor, Washtenaw coun-Climax and Texas, Kalamazoo county, Bedford and South Albion, Calhoun county. Burton, Genesee county, Erie, Monroe county, Peach Grove, Kent county, Progressive of Victory Township, Monroe county, Farmers' Home Improvement Club, Roscommon county, Standish, Arenac county, and Alpena county, making a total of 120 Clubs representing 35 counties, Jackson leading with ten clubs, closefollowed by Livingston, Shiawassee and Oakland with nine each, Calhoun seven, Washtenaw six. Lenox and Chesterfield of Macomb county, have the largest enrollment recorded to date, 185, and Assyria, Barry county, the largest average attendance of 102. Bedford and South Albion have already joined the State Assoon do so.

Many requests for copies of the constitution and by-laws and information on organizing local Clubs have been answerthe increasing popularity of the Farmers' Clubs as social, co-operative and educational factors of rural life.

Very flattering reports come from Kentucky and South Carolina who requested information and literature on Farmers' Club work from the Michigan State Association, and very special mention should be noted of the co-operation of the county experts in Club lines. H. G. Smith, of Alpena, reports a Club in his district.

Charleston Township Junior Club and the Ingham County Club Boys' Corn Concommunities.

strenuous with the extra mailing lists for the equal suffrage campaign, and it looks now as if the women will have to fight on this line more than one summer.

The new financial basis is proving more results "look good" to the executive board, 17 Clubs who paid by December 1, \$69.80 deep student of affairs and to inspire comparatively innocent first offenders are the old rate of \$2.00 per Club.

The Farmers' Club page of the Michigan Farmer grows more interesting every

Tuscola and Shiawassee County Assoco-operative buying and selling plan.

41 having passed to the great beyond. Your secretary has written all delin-

on returns from report blanks returned of the state is entirely out of proportion December 1:

ing year; 45 average attendance; 16 Clubs the farmers of the state to have a voice Michigan State Association of Farmers' Clubs sent delegates to annual meeting, whole population. Clubs was held in Representative Hall in 1912; 84 Clubs returned 1912 report blanks; 72 Clubs paid 1912 dues.

dress the meeting, to an editorial published in his paper after the last annual clubs and similar organizations. pertaining, in Mr. Nimmo's opinion, entirely to the local self-government of cit- tic animal is an artist. ies. He then painted a vivid picture of itanical in his views of social affairs and ference being that he was always ready summarize in a future issue. to advise his city cousin and others outside of his own sphere, with regard to the proper conduct of their affairs. Mr. Nimmo's views were presented in the spirit of kindness rather than criticism and, due to his tact, were received by his hearers in the spirit in which they were given.

In order that both sides of this proposition might be presented, the next number was, "As the Country Man Views the duced by combination instead of compe-City Man," this response having been assigned to Hon. A. B. Cook, of the Maple River Farmers' Club. Mr. Cook was between the strong companies in such a unable to be present, but the subject was manner as will enable a single company ably handled by Mr. C. B. Cook, of the same Club, who thought that the criti- at present there are 1,277 corporations supcisms on both sides were very largely and very generally due to a lack of proper understanding and appreciation of each other on the part of both city and country men, and that it was most desirable that they should get together in an attempt to solve the questions in which both are vitally interested, particularly vanced the theory that increased rates emphasized by the statement that while government statistics show that the farmers of the country last year received a communities where they occupy the field total of something like six billion dollars alone. ed promptly, and we note with pleasure for their products, the consumers paid which are to be held in different sections something like fifteen billion dollars for the same products. He cited numerous examples which had come under his own observation, illustrating the misunderstanding of this situation by city men, address of the session, delivered by Chapwho are inclined to believe that the farmers are getting rich, as a result of the advance of the prices to consumers.

As Dr. Mumford, in charge of the Farm Management and Field Studies for Michigan, who was to have addressed the meeting at this session could not be present until a later session, considerable The work of the last year has been appointed the regular committees, closing the management, which he thinks excelthe afternoon session.

Tuesday Evening Session.

the betterment of mankind and the con- with moral degenerates hand. The U.S. Department of Agricul- try and the cities are interdependent, pertinent question, "What is society goture requested a complete file of annual throwing much additional light on the ing to do to give them a chance?" Regenerally regarded the production of crops from the soil in the same light as they year, with the reviews of the Club work have mining, except that they have conin other states and the local Club reports. sidered the fertility of the soil an inexhaustible resource. They forget, or do ture course, and some Club's trying the much fertility taken from the land, and The death angel has visited our ranks, an equivalent of fertilizing elements must be returned to it.

quent Clubs, with a result of \$24, 1912 inal problem, President McBride empha-The following statistical table is based the cost of caring for the criminal classes their local organizations.

use yearly programs; 15 Clubs have Club in the matter of their pepetuity and

Views the Country Man," by H. M. Nim- cost of living he stated that the farmers to agriculture by the banks, commercial organization because it discussed and importance of agriculture by the statepassed resolutions relating to matters ment that the farmer who grows a perfect crop of grain or an improved domes-

At this point a transposition was made the country man in the aggregate, in in the order of the program and Mrs. W. which the main points were that he is pur- H. Taylor, of the Ingham County Farmers' Club, read a paper entitled, "Side liberal in everything but money, the in- Lights on Farm Life," which we hope to

The next number on the program was diate and practical interest. It was an address by Hon. Lawton T. Hemans, member of the state railroad commission, on the subject, "About the Telephone System." The burden of Mr. Hemans' address was that in this line of commercial activity the problems involved would bition. be simplified and the cost of service retition. He believes that the ultimate solution will lie in the division of territory to serve a given territory. He said that plying telephone service in Michigan, and that while the Railroad Commission has been censured for promoting mergers it is the dream of the commission to see a single telephone company in each neighborhood, with an unprohibited interchange between them. Mr. Hemans adare competing in the same field they will be found charging an excessive rate in of the state with a view of eliminating undesirable competition.

"Our State Charges who have Violated the Law," was the subject of the closing lain Lowther, of the Jackson State Pris-"The Manhood of Michigan can save the boyhood of the state if they will stop being selfish long enough to do it," declared the speaker, who thinks that every red-blooded boy can be won back to right living and good citizenship if the right man gets him. He believes that the State who have not had home training, onto hearers with the fact that he has been a our system to be equally at fault in that their Clubs at stated times. The annual reports were mailed April ditions surrounding human life. He made that society provides the conditions that 10, and there are still some copies on a strong point of the fact that the coun- send men to prison, the speaker asked the igan.

Wednesday Morning Session.

ress session of the meeting. The morning hours were devoted to the usual "Conference of Club Workers," which was ciations are doing good work, Looking not think, that every crop which is har- conducted by Mr. C. P. Reynolds, of the Glass Valley Club maintaining a nne lec- vested and sent to the city is just that Maple River Club. The session, however. lacked the value which has characterized that to preserve the fertility of that land those of many former meetings for the reason that many of the delegates showed an inclination to digress and discuss gen-In touching upon the important crim- eral topics at such length that the time did not suffice for a report by all of the sized the fact that the farmer's share of delegates present regarding the work of

Following this conference came reports ocember 1: to the country's contribution to crime. of committees, resolutions being adopted One hundred and twenty active mem- He well stated the fact that while the with such freedom that space will not bers in state; 4,320 members; 3,384 mem- saloons and other similar evils are proper- permit their publication in full. Briefly bers one year ago;589 meetings held dur- ly city and town institutions, the right of summarized, the sense of the action taken was as follows:

State Affairs.—Pledging an interest in fairs; 14 Clubs have temperance meet- conduct can hardly be denied in the face the working out of reforms made possible ings; 41 Clubs have picnics; 40 Club sec- of the fact that the cost of the crime by the adoption of the initiative and ref-The twenty-first Annual Meeting of the retaries take the Michigan Farmer; 41 which they produce is entailed on the erendum; asking that the Railroad Commission be made a public utilities com-In speaking of the future, President mission; favoring a law guaranteeing McBride referred to the accomplishments bank deposits; favoring extension of the The first number on the afternoon pro- of the past as a reason why we should recall to cover judges; favoring the esgram was an address, "As the City Man take courage. Touching upon the high tablishment of a "court of conciliation" for the settlement of disputes without mo, editor of the Detroit Saturday Night. were interested in this problem as well court trial; favoring free text books to Mr. Nimmo approached his subject with as the city people, because they, too, have and including the eighth grade, and a rethe utmost frankness, referring as the to live. He commended the various forms duction of the number of grades in comprobable reason for his invitation to ad- of assistance which have been extended mon schools to six and in high schools to mon schools to six and in high schools to three; favoring a tonnage tax; favoring referendum vote in counties on policies meeting of the Association, in which it gether, his address was one to inspire his and appropriations for road building; rewas referred to as "A Rural Salvation hearers with optimism and he showed his affirming declaration of principles made Army," which title was applied to the appreciation of the dignity as well as the at 1912 meeting; favoring a compulsory spraying law for fruit trees.

National Affairs .- Indorsing administration's course in Mexican problem; requesting support of senators and congressmen for the Lever Bill; indorsing the Newlands River Bill; favoring reduction of foreign postal rates; favoring collection of inheritance taxes by federal government; favoring national aid for good roads; favoring government ownership of express, telephone and telegraph one in which those present had an imme- as adjuncts to postal service; commending work of National Popular Government

> Temperance.—Pledging unstinted aid and encouragement to the local option movement and expressing the ultimate desire for state-wide and national prohi-

> Miscellaneous.-Favoring the appointment of a committee to co-operate with like committees from other farmers' organizations in the outlining of a plan for the bringing about of reforms by means of the initiative and referendum; favoring the establishment by the State Board of Agriculture of a Woman's Bureau of Home Management.

> Club Extension.-Inasmuch as this is a matter for action by the Clubs themselves, we give the text of the resolution reported by the committee on Club Extension and adopted by the convention in full as follows:

Whereas, we believe that good could be Albion have already joined the State As- the economic questions which relate to were due to competition rather than com- accomplished by more systematic work sociation, and we trust the others will the high cost of living. This fact was bination, and that where two companies along the line of connected programs or accomplished by more systematic work continuous topics.

Resolved, we can recommend the yearly program to every Club in the state and He mentioned public hearings urge upon all to accomplish as much

along this line. Also, we believe that one of the great needs of the Farmers' Clubs of our state is enlisting the young people in Club work and that in this alone lies our future success, therefore we recommend to our that you inaugurate Boys' and Girls' Clubs in your territory, holding an exhibit in the fall with suitable prizes or rewards, and we recommend that this State Association authorize its executive committee to provide for an exhibit at our next annual session, this to be made up of corn grown by the boys, and sewtest are live issues in their respective time was devoted to the two talks above Industrial School is adding to the toll of ing or cooking by the girls. We would summarized, after which the president crime in the state. This is not due to recommend that committees be appointed by each Club on such important subjects lent, but to the system of unloading boys as alfalfa, silos, fertilizers, spraying, hog cholera, domestic science, or any other, The president's address was as usual the state, herding them with others of and that it be the business of the comthe opening number of the Tuesday ev- vicious mind and then expecting them mittees to keep themselves posted on all ening session. President McBride's ad- all to come out of that environment as new valuable information along their resuccessful than we dared hope, and the dress was of a character to impress his good citizens. In the prisons he declares spective lines, and report the same to

We believe that our Association could netting \$58.00 as compared with \$34.00 at them with renewed zeal in their work for herded with habitual criminals—boys do no better work than to aid Dr. Eben After stating Mumford, in his work of placing county experts in the different counties of Mich-

We believe that Club life would be quickened and more delegates sent to our reports, and 13th to 20th inclusive were subject of the afternoon's debate. As re- ferring to the conditions which exist in State Association, and a stronger bond forwarded at once. Should anyone have lated to that discussion he stated that cities and towns he said that "We need welded between the local Clubs by a visit one to 12 inclusive, and willing to send one common mistake of city people was to do much in the cities, but it is a country at least once a year of some officer or them to the library, the department will that they do not understand the soil probbe very grateful.

that they do not understand the soil problem. They have too frequently and too of Michigan."

therefore we recommend that we urge each Club to recommend that we urge each Club to write our assistant secretary as to which This session was, as usual, the busi- is the nearest officer or director available and have them sent to address that Club on some phase of Club work, the actual traveling expenses of the officer or director to be borne, one-half by the local Club and one-half by the State Associa-

Election of officers resulted in the reelection of Hon. Jas. N. McBride as president and Mrs. C. P. Johnson as secretary-treasurer. A full list of the new officers and a report of the two remaining sessions of the evening will be given in the next issue.

Where corn and

Mr. Tate, near Camden, Ark. says: We make 63 bu. of corn an acre here. There is all the native hay we need and splendid pasture. Lespedeza is found everywhere. Bermuda will not dry out or freeze.'

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than anywhere else. Yet, these dairy products bring higher prices in the local small town mark, ets, there, than northern farmers get in such cities as St. Louis and Chicago.

as St. Louis and Chicago.

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cycles, the rural carrier's rig, stage coach, pack horse, etc. It connects every farm in the country with every cottage of the notwithstanding the fact that the limits of service have thus far been closely restricted partially to allow the machinery business done is enormous.

tion, enormous in its scope, that every sensible business lines. citizen of the country, and particularly the rural residents, should patronize.

conizes no clique, allows no rebates, car- ments of the plan are very simple, so far od of distribution. ries at cost or thereabouts, and in every way tends to equalize advantages among men. It is, in other words, "for the people."

And the farmers should use the system because it belongs in part to them. The representatives of the people constitute that surplus will need to be used for some reached from all the city car lines. however we figure it.

as reaching out to the people goes.

cal genius will dispute this, but it is so potatoes, baked beans, etc. and Mr. Experioperative institution.

New York. The season of 1914 there will be hand- and the poultry was cleaned up early. The those to Michigan Farmer, Detroit.

THE greatest co-operative business led fully 1,000,000,000 parcels. And this institution ever brought into ac- is only the beginning. Here is what is tivity is the parcels post recently coming: While it has not been officially inaugurated by the people of the United announced, yet the writer has been as-States. Here about 100,000,000 members sured that the limit will be raised from participate in the benefits of the institu- the present limit of 20 pounds to a limit tion. It compasses a territory reaching of 50, and possibly 100, pounds during the half way around the world from east to coming year. Does not that sound optiwest, and from Alaska on the north to mistic to the man who raises chickens, Panama on the south. Within that terri- produces eggs, butter, apples, meat, milk, tory it uses nearly all modes of trans- cream, honey, molasses, small fruit, canportation—steamship service, railroads, ned fruit and vegetables? This selling of electric lines, auto trucks, wagons, motor- farm products by parcel post is a habit we should certainly establish.

great cities, and the hamlet of the east along business lines. Take, for example, the present time all deliveries have been grocery for the same price, they are cerpartially for other reasons, the volume of increased expense, especially in the delivhave sympathy for the little fellow. Out stated to us that plans are now well mawhen the slave was freed. We are even delivered to the people. This is one exof powerful money interests, and decapi- charge of the work of the greateest cothis sentiment here is a business institu- it serve its members along careful and

Simplicity is also one of the attractive features of the parcel post system, and the little fellow equal advantages with goods must be carefully packed in order the big fellow. It furnishes a system of to be carried safely, and to prevent in-

as the shipper himself is concerned. It is devoid of the usual "red tape" of the ordinary common carrier. Furthermore, the farmer has been accustomed to the same plan in the posting of mail matter, all of which commends the system to him.

Another feature that should not be overlooked is that parcels may be insured. A mailable parcel on which the postage is fully prepaid may be insured against loss in an amount not exceeding \$25 on payment of a fee of five cents, and \$50 on a payment of ten cents. Insurance tags are used for the purpose of insurance, and may be obtained on application at the post offices. This feature of the parcel post plan should give shippers the utmost confidence in this method of distribution.

Finally, there is another argument that should appeal strongly to a certain class of producers, and that is that the parcel post will enable them to produce a high quality of goods where now it is necessary that they endeavor to produce a large ve should certainly establish. bulk, regardless of the quality. It is the Furthermore, the organization of the superior quality of goods that encourages parcel post system is being perfected consumers to secure their supplies direct from the country. If they can secure with the mountain home of the west. And the changes that are being made in the direct from the farmer apples much sumethods of delivery at Detroit. Up to perior to the ones they can buy at the made from the central office. This in tainly going to seek further shipments to become adjusted to the demands and many instances has occasioned delay and from that farmer. It is the same with eggs, butter and other products. Now in ery of parcels to certain sections of the the selling of high-class products, one is Now the American people, as a people, city. Postmaster Nagel, of that office, disposing of the skill used in the production of these products, as well as the acof this sympathy grew the battle cry of tured whereby parcels will be directed tual manual labor required, and it has colonial days where the sentiment was from the depots to the sub-stations with- always been found in the industrial and that "men are born free and equal." The out going through the central office, and mercantile world, that products requiring same spirit was expressed in the sixties from the sub-stations the goods will be skill to produce always demand the largest premium of profit. We maintain, now trying to loosen the grip of the trust, ample of many showing how the men in therefore, that the farmer who takes advantage of the parcel post method of gettate the political boss. But in spite of operative institution are trying to make ting products to the consumer, opens the way to the production and distribution of this class of goods, and thereby improves his opportunity for receiving a greater income from his labor.

They should do this, in the first in- because of this the farmers should en- These are some of the reasons why the stance, because its use will tend to give courage it. Aside from the fact that the farmer should use the parcel post. In succeeding issues we shall show how different kinds of products should be packdistribution that treats all alike. It pat- jury to other parcels, the clerical require- ed to insure safe shipment by this meth-

CITY MARKETS OF MICHIGAN.

ing unusually successful and in the board of directors, as it were, of this some respects at least stands at the head great co-operative business enterprise. By among the municipal markets of Michi- considerations. People get together sotaking advantage of its service, men are gan. Jackson is a compact city of over "minding their own business," helping 30,000 people, with rich farming lands. themselves, and also, their neighbors. The stretching out in all directions. A cengreater the amount of business done the tral site for the market has been chosen, cheaper goods can be carried. The way to and right here is where many cities make lower the rates for carrying packages by mistakes. The Jackson market is accesparcel post is to patronize the system. sible from two streets, is close by the in-If there is a surplus from the service, terurban freight depot and is easily public purpose and thereby lessen the de- market master has been placed in charge, mand for moneys from other sources. The also a board of governors, and these men people are bound to benefit by the in- are right on the job every day. The creased business done by parcel post, Jackson daily newspapers are boosting the city market in every issue. One reason Then, again, the parcel post method of why this market succeeds so well doubtdistributing goods is convenient. If you less lies in the fact that you can get send a Christmas turkey to a patron in almost everything there — fresh fish, the city via the post office route you hand meats, vegetables, groceries, etc.-while it to the agent of the parcel post at your in Grand Rapids and other markets the door and another agent of that same sys- offerings are confined almost wholly to tem hands it to your customer on Twen- fruits and vegetables. You can get all ty-first Street, or wherever he lives. It kinds of relishes, home-made baked goods not only reaches from town to town but and home-made candies, on the Jackson from home to home. Such a system is market. One plucky farmer's wife drives quite near the acme of perfection so far eight miles to the market every Wednesday and Saturday with baked goods, And it is economical. Some mathemati- bread, rolls, chicken noodles, escalloped Prospects The greatest mathema- point to more active competition in the tician of business problems is Mr. Expe- meat business during the winter. Several rience. He takes into consideration some farmers who know how to cut up meat of the little items of account that the or- will open stalls and retail their own stuff, dividing the middleman's profits with the ence has been found reliable-so much so city consumer. The Jackson market is samples of cream or milk to the Michigan that other means of distribution are be- not an early morning affair with prac- Farmer offices instead of addressing them that other means of distribution are being forsaken for the way he points out, tically everything over by 7:00 a. m., a to the Michigan Farmer Laboratories, 674 and he says, "Use the parcel post." You time when city people are scarcely out of woodward avenue, Detroit. By having see, he has analyzed the entire problem bed, but continues through the day, and the samples delivered directly to the laboratories. and by properly crediting the parcel post on Saturdays, the big day, is open until oratories they arrive in better condition system with the service of taking the 10:00 p. m. Telephones are being installed for testing. goods from the farm directly and giving for the convenience of patrons. The marto the consignee personally, he gets fig- ket master is taking many orders for po- the Michigan Farmer will test milk or ures decidedly favorable to the great co- tatoes from persons desiring their winter cream free of charge for them. Follow supply and these are turned over to the these directions: Thoroughly mix the But there are further reasons for the farmers who, as a rule, will deliver the cream or milk by pouring from can to farmer's support. While he may feel that goods at the homes. Fresh eggs and but- can three or four times, take enough to now the limits of the parcel post are too ter are always in good supply. Jackson fill a 4-oz. wide-mouthed bottle, enclose narrow for giving him the service he papers stated that thousands of chickens, bottle in mailing case and send by parcel wants, it must be remembered that the ducks, turkeys and geese would be on post to Michigan Farmer Laboratories,

attendance that day is estimated at 2,000 people. Jackson consumers are finding HE city market which was opened that getting the city market habit is not late in the fall at Jackson is prov- only attractive financially, with better stuff at lower prices than the stores afford, but that there are health and social cially and the communal life of the city is strengthened. The exercise in the open air is also beneficial.

Markets in Other Cities.

Upper peninsula towns are waking up the market proposition. A centrally located site at Manistique has been offered free of expense for public market purposes and city people say that it now is up to the farmers of that section to bring in their stuff.

Under direction of the Commercial Club of Ironwood, an old-fashioned "bee" was held in that city October 16 to clear and grade a site for the farmers' market on upper Suffolk street, near the "Miner's home." Sheds are being built by the city, with other accommodations for farmers and their rigs.

Work on the new market building at Flint is now well under way. It will be modern structure built along sanitary lines and easily cleaned by flushing the cement floors. Rows of sheds have been completed for further accommodation of farmers' rigs. The location is on Smith street, near the city waterworks. A railroad siding will be extended to the A. GRIFFEN.

HOW TO SEND SAMPLES OF MILK.

Many make the mistake of sending

Our new subscribers may not know that wants, it must be remembered that the Saturday before Thanksgiving, 674 Woodward avenue, Detroit. We furmeans of trading. It is predicted by men and as a result there were over 200 peo- nish a suitable bottle and mailing tube

Crop and Market Notes.

Michigan.

Branch Co., Dec. 1.—December finds us with some corn yet in the field. The yield is about 25 per cent short, owing to drouth and fodder hurt by fall rains. Corn selling at 30@35c per basket. Buckwheat poor crop here, as hot dry weather prevented filling. Price \$1.65 per cwt. Potatoes a light crop and selling at from 40@65c. Wheat selling at 90c, but many farmers are having to feed their wheat owing to the presence of loose smut. Clover seed was fair yield and quality good. Beans large acreage but poor yield, average under 12 bu., selling at about \$1.75 per bu. Beans ripened very uneven, making them hard to thresh. Not much stock being fed owing to short corn and hay crops. As a whole this season was only ordinarily favorable for the farmers in this locality.

Washtenaw Co., Dec. 2.—The weather

this locality.

Washtenaw Co., Dec. 2.—The weather at this date and for the past week has been warm, wet and foggy and for the last three days it has rained most of the time. Corn husking is at a standstill and a good deal of complaint of spoiling fodder. The year just past has been, from the farmer's viewpoint, both good and bad. Crops have made an average of 60 to 65 per cent of a normal yield but the price being in instances that much better than average, farmers are perhaps financially about as well off as in better crop yielding years. Milk, hogg, potatoes, hay, eggs and apples in the order named bring to the farmer the largest part of his revenue. Milk on 3½ test brings \$1.80 per cwt. Hogs, dressed \$10; potatoes 75c@\$1; hay \$15; eggs \$35c; apples \$1@1.25. In its larger aspects I should pronounce it a successful year.

Kalkaska Co., Dec. 2.—The season has been moderately satisfactory, all crops except hay have made normal returns. Prices have ranged higher than usual at this season. Hay is \$18@20; other roughage is abundant as herds of cattle have been reduced on account of high prices. Ordinary milch cows are selling at \$50@80; spring calves \$15@18; thogs on foot 7@8c; potatoes 45c now, have brought 65c. Beans, white \$1.70; butter-fat 33c; not much grain sold except buckwheat, which is \$1.50 per cwt; eggs 25c; poultry, turkeys 15c; chickens \$@12c; warm, with considerable moisture.

Shlawassee Co., Dec. 1.—Heavy fog with prevailing southeast winds indicateing storm. Very little rain the past two weeks. Farmers are availing themselves of the opportunity of doing a large amount of plowing. The corn crop nearly taken care of. Plenty of potatoes in the farmers hands. Beans are moving slowly. Local prices: Beans \$1.65; wheat \$8c; rye 60c; oats 39c; cloverseed \$7; barley \$1.0; potatoes 60c; butter 30c; eggs 30c. Lambs are beginning to arrive for feeding. No cattle.

Livingston Co., No. 29.—The season of 1913 has been a fairly successful one, notwithstanding the uniavorable cilmatic than it does this fall. Farmer

Former years.

Penncylvania,

Eastern Crawford Co., Dec. 2.—Weather mild, grass growing, stock doing fine, farmers plowing and a nice lot being done. All told, 1913 has been a prosperous year, crops were shorter but prices were higher. Farm produce about all cleaned up. Some hogs being marketed at \$7.75. Turkeys all picked up and only a few dairymen furnishing winter milk, which commodity is bringing \$1.75 for four per cent. Weather favorable for new seeding, also wheat, which looks fine.

Columbiana Co., Dec. 2.—We have been having very changeable weather during the past month but the farmers have had a good chance to get their work done and most of them have taken advantage of the fact. There were a good many potatoes to dig after the big snow we had two weeks ago but they have all been taken up. Butchering is now the order of the day although some are delaying on account of the warm weather. Taking the

weather conditions and everything into consideration the farmers of this county have had a preity good year. Local markets: Eggs 40c; butter 30c; chickens 12c; hogs have been coming up a little, now \$7.70; potatoes are 70c; grain has been about the same.

Lancaster Co., Dec. 1.—We are having a week of rainy and foggy weather. November 30 was quite warm. Farmers have considerable corn husked and the ground is so wet they cannot haul it. Corn about half a crop, price 60c. Hay two-thirds of erop, \$1.25 per bu; potatoes very light crop, \$1 per bu; wheat good, 91c per bu; oats of good quality and two-thirds of a crop, selling at 45c per bu. Farmers are not having much to sell except wheat. What hogs there are are being shipped, partly because corn bu. Farmers are not having much to sell except wheat. What hogs there are are being shipped, partly because corn is not plentiful, but also for fear of the cholera. Fat hogs sell at \$7.25. Not as many cattle being fed as last season. Milch cows are not plentiful and are high, from \$50@90. Butter 30c; eggs 40c; chickens 10@12c per lb; turkeys 18c and retail at 25c per lb. Help very scarce. Quite a number of hogs have died of the cholera.

chickens 10@12c per lb; turkeys 18c and retail at 25c per lb. Help very scarce. Quite a number of hogs have died of the cholera.

Eastwood Co., Dec. 3.—We could hardly call 1913 a successful season, although corn was fairly good. The rest was hurt by the extended drouth more or less. There are not many cattle or hogs being marketed now. The warm rainy season has caused the late wheat and rye to look well and has caused the pastures to green up and will save the farmers a large amount of feed. Corn 80c; wheat 95c; oats 45c; butter 25c; turkeys 16c.

Medina Co., Nov. 26.—The potato crop was about 40 per cent of normal. New seedings and wheat are in excellent shape and old meadows are faily good. There is a scarcity of feed in farmers' hands for their own consumption, wheat being the only surplus grain for sale. About half as many hogs and lambs are being fed as usual. Following prices being received: Hogs 7½c; chickens 11@12c; hay \$12.5c; wheat 90c; potatoes 75c; butter 31c.

Highland Co., Nov. 24.—Potatoes about one-fourth of a crop. Condition of meadows 75 per cent. Wheat and rye good. Grain and feed in farmers' hands very short. Good many hogs and cattle being fed in this part. Wheat 85c; corn 60c; hogs \$7.25; cattle \$5.50@6.50 per cwt.

Ashtabula Co., Nov. 22.—Warm, mild weather here this week, the temperature going as high as 72 on the 19th. Everyone is improving the good weather by plowing and husking corn. Some are complaining of mouldy corn. Not much butchering done yet; lots of sales now; new milch cows in demand at fabulous prices. Some farm property changing hands. Poultry, 10c; turkeys, 20@23c; pork 7½c; dairy butter 30c; eggs 34c; potatoes 70c; oats 40c; wheat 85c; buckwheat \$1.50 per cwt.

Sandusky Co., Nov. 20.—It is nice and warm now after a record-breaking blizzard. Snow is all gone and farmers are pushing corn husking and fall work. Corn not very good in quality and not over half husked. Wheat looking extra good. But little rye sowa. Meadows best in years. This has been a great clover year for s

Indiana.

Indiana.

Tippicance Co., Dec. 2.—The weather has been very damp and rainy for the last two weeks, making it impossible for the farmers to finish corn husking. This year's crop production was not as successful as that of last year but the farmers will have plenty of feed for consumption during the winter. On the whole, we cannot consider 1913 a very successful season for the farmer. The second growth of clover was short but it yielded good. Wheat 87c; clover seed \$8.82; alsike \$10.50; corn 65c; timothy \$13; oat straw \$6; eggs 33c; butter 27c.

Jay Co., Dec. 1.—At this writing it is warm and raining and has been for a week. There is still much corn in the shock, the warm weather and continued dampness has hindered somewhat in the cribbing. Some danger to river bottom corn if weather still continues. This section produced the best corn crop for years making up and more for the extra short oat crop. 1913 has been a very successful year for farmers in this section. A small loss was occasioned by a hog cholera epidemic among a very few herds. Not much grain moving to market, just enough to meet current expenses and taxes, and surplus for which they have no room. Some hay moving to market but the late fall and abundance of fodder taxes, and surplus for which they have no room. Some hay moving to market but the late fall and abundance of fodder keeps the price way down, now \$8.50 \(\text{(m)} \) cattle feeders are feeding some silage; cattle prices show a decided drop. ld for 91%e during th mer but are quoted at 7½c now. Much cream is marketed to the creameries, wagons chasing all over the country for it. Wheat 87c; oats 35c; rye 57c; new corn 75c; butter 23c; eggs 34c.

"Look Beyond the End of Your Nose"

grandfather used to say. A Florida fruit grower remarked that he had to go to California to learn that he had been wrong for twenty years. The potato growers of Maine get hints from Colorado; the apple men learn from the orange growers how to coöperate. Here's where the national-farmweekly idea comes in. If you want to get your long-distance lessons in money-making methods without spending carfare, look beyond the end of your nose and get the national-farm-weekly habit. The big National Farm Paper is The Country Gentleman.



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THE CURTIS PUBLISHING COMPANY Philadelphia, Penna. Independence Square

Markets.

GRAINS AND SEEDS.

Wheat.—Substantial gains have been made in prices during the past week, and the market appears to be firmly established on the higher levels. About the only real bearish news is the excellent condition in which the growing crop is going into winter quarters; outside of this everything seems to favor higher prices. Canadian exports have practically ceased for the year and receipts in the American northwest are much below those of a year ago. In Kansas and other southwestern sections, much wheat is being used for feed, the shortage of the corn crop making it more economical to feed wheat than maize. While England is bidding for Russian cargoes, the demand for wheat on the continent is sufficiently large to absorb practically all of the shipments from the Black Sea district. Argentina is having changeable weather, but even with favorable conditions, the export surplus cannot be large, and the quality is inferior. India has enjoyed better weather the past few days, but there is little hope of reviving the already much damaged crop. Australia is also asking higher prices for the cargoes she is sending out. The advance in prices for the week amounts to nearly 3c. One year ago No. 2 red wheat was quoted at \$1.05 per bu. Quotations on the Detroit market for the past week are:

No. 2 No. 1

Red. White. Dec. May. Wednesday ... 1.00 1.00 1.00 1.05 Friday ... 1.00½ 1.00½ 1.00½ 1.05½ Saturday ... 1.00 1.01 1.01 1.06 Chicago, (Dec. 9).—No. 2 red wheat, 98c; Dec., 88%c; May, 92¼c per bu.

Corn.—There have been consistent gains in the corn market the past week. Prices show a full cent advance. Colder weather has made shelling and grading of corn possible in the heavy producing districts, which acts temporarily as a bearish influence, enabling farmers to deliver. The shortage, however, is being keenly felt, and while substitutes are being used as liberally as possible, corn values promise to be maintained at or above the present level for some time to come. Many farmers are marketing their live stock rather than feed corn of su

	No. 2	No. 2
	Mixed.	Yellow.
Wednesday	69	71
Thursday	691/2	711/2
Friday		711/2
Saturday	691/2	711/2
Monday	70	72
Tuesday	70	72
Chicago, (Dec. 9)	No. 2 corn	, 72½c;

Chicago, (Dec. 9).—No. 2 corn, 72½c; Dec., 70½c; May, 70½c per bu.

Oats.—This cereal has also advanced, present figures being 1c above those of a week ago. Dealers appear anxious for this grain, believing that at present figures it is a good buy as compared with corn and other feeds. Primary receipts are small, and the visible supply decreased nearly three-quarters of a million bu. One year ago standard oats were quoted at 37c per bu. Prices for the past week are:

	No. 3
Standard.	White.
Wednesday 43	421/2
Thursday 43½	43
Friday 44	431/2
Saturday 44	431/2
Monday 44	431/2
Tuesday 44	431/2
Chicago, (Dec. 9)No. 3 white	te oats,
411/4 @ 421/4 c; Dec., 395/8 c; May, 42	½c per

er bu.
Rye.—This cereal rules steady. No. 2

Rye.—This cereal rules steady. No. 2 is quoted at 66c per bu.

Barley.—At Chicago barley is quoted at 73@78c per bu., while Milwaukee quotes the malting grades at from 56@78c.

Cloverseed.—Dealers are anxious for seed and the demand has boosted prices. Prime spot is quoted at Detroit at \$9.40 per bu; Dec., \$9.40; March, \$9.50. Prime alsike is steady at \$11.10 per bu. At Toledo, December is quoted at \$9.52½ and prime alsike at \$11.40.

FLOUR AND FEEDS.

Flour.—Jobbing lots in ½ paper sacks are selling on the Detroit market per 196 lbs. as follows: Best patent, \$5.30; second, \$4.80; straight, \$4.50; spring patent, \$5.10: rye flour, \$4.60 per bbl.

Feed.—In 100-lb. sacks, jobbing lots: Bran, \$23; coarse middlings, \$27; fine middlings, \$27; cracked corn, \$31; coarse corn meal \$30; corn and oat chop \$26.50 per ton.

stock; while lower grades are in large supply and move slowly. Choice timothy quoted at \$18@19 per ton; No. 1, \$16@17; No. 2, \$14@15.

Straw.—Detroit.—Easy. Rye, \$8@8.50; oat straw, \$7@7.50; wheat straw, \$6.50@7 per ton.

Chicago.—Quotable as follows: Rye 8.50@9; oat \$7@7.50; wheat \$6.50@7.

DAIRY AND POULTRY PRODUCTS.

Butter.—The local market continues steady with prices higher on good grades but lower on packing stock. Quotations are: Extra creamery 33c per lb; firsts 31c; dairy 23c; packing stock 18c per lb. Chicago.—Market very quiet. There is some demand for first-class stuff but poor butter goes begging. Extras are scarce which makes it hard to hold prices for this grade. Quotations are: Extra creamery 33c; extra firsts 31@32c; firsts 26@28½c; seconds 22½@24c; ladles \$22@22½c; packing stock 20@20½c per lb. Elgin.—Market firm at 35c per lb which is a 1c advance over last week.

New York.—Market conditions for undergrade stuff deplorable. A steady demand for good grades with prices slightly higher. Quotations are: Creamery extras 35@36½c; firsts 27@33c; seconds 23@26½c; state dairy, finest 30@32c; good to prime 26@29c; common to fair, 22@25c; packing 20@21c as to quality.

Eggs.—Egg prices are lower although both receipts and demand are relatively good. Current receipts of fresh stock is quotable at 35c per doz.

Chicago.—Due to colder weather the market is steadier. Receipts of fresh eggs increasing but dealers have to rehandle every lot to satisfy fancy fresh egg frade. Prices are slightly lower. Quotations: Miscellaneous lots, cases included, 26@25%c for April firsts.

New York.—On account of high prices consumetion has materially fallen off. Re-

refrigerator stock steady at 25%@25%c for April firsts.

New York.—On account of high prices consumption has materially fallen off. Receipts of fresh laid stock from the south is increasing and will probably bring prices down. Quotations are: Fresh gathered extras 39@41c; extra firsts, 37@38c; firsts 35@36c.

Poultry.—Turkeys are in demand as the

ered extras 39@41c; extra firsts, 37@38c; firsts 35@36c.

Poultry.—Turkeys are in demand as the dealers are anticipating a big Christmas trade. There is a good demand for all kinds of poultry at present prices. Quotations are: Live.—Springs, 14@14½c; hens 13@13½c; No. 2 hens 9@10c; old roosters 9@10c; turkeys 19@21c; geese, 13@14c; ducks 14c.

Chicago,—Market is fairly good. Large supply of springs brought price down ½c. Old chickens in fairly good demand. The demand for turkeys is moderate with prices unchanged. Quotations on live are: Turkeys, good weight 15c; others 12c; fowls, general run 13½c; spring chickens 12½c; ducks 11@13c; geese 8@12½c; guinea hens \$6 per dozen.

Cheese.—Market steady with values unchanged. Wholesale lots, Michigan flats 15@15½c; New York flats, 17@17½c; prick cream, 17@17½c; limburger, 14½@15c.

Veal.—Colder weather has steadled the market. Prices slightly higher on fancy veal. Quotations: Fancy 13½@14c per lb; common 10@11c.

Chicago.—Market steady. Supply is meeting demand. Prices are unchanged. Quoted as follows: Good to choice, 90@110 lbs., 13½@14c; fair to good, 60@90c lbs., 11½@13½c.

FRUITS AND VEGETABLES.

Apples.—Prices firm and market active. Quotations are: Snow \$4@4.50; Spy \$4@4.50; Greening, \$3.50@4.50; King, \$4.50@4.50; Standard. White.

No. 3

Standard. White.

Wednesday 43 42½

Thursday 44 43½

Saturday 44 43½

Monday 44 43½

Tuesday 45; May, 42½c per bushel.

Beans.—Elevators are reported to be pretty well loaded up with beans in the heavy producing districts and consequently are not anxiously bidding for additional supplies unless they can get them at a safe figure, which accounts in part for the reduction of quotations the past week. Immediate and November shipments are quoted at \$1.85; January \$1.90 per bushel. Chicago reports an easy trade at lower prices. Pea beans, hand-pickel, choice, are quoted at \$2.15; common \$1.75@2; red kidneys, choice \$2.65@2.75 per bbl. for white, and \$1.50@2 for red.

Rye.—This cereal rules steady. No. 2 is guested at \$2.50 per bbl. for white, and \$1.50@2 for sper bu.

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ond, \$4.80; straight, \$4.50; spring patent, \$5.10: rye flour, \$4.60 per bbl.

Feed.—In 100-lb. sacks, jobbing lots: Bran, \$23; coarse middlings, \$27; fine middlings, \$27; cracked corn, \$31; coarse corn meal \$30; corn and oat chop \$26.50 per ton.

Hay.—Better grades lower, ordinary \$26. Greenhouse growers are getting 7c kinds steady. Carlots on the track at for lettuce; 15c for parsley and 25c for Detroit are: No 1 timothy \$16@16.50; radishes. No change is noted in the postandard \$15@15.50; No. 2 \$14.50@15; light mixed \$15@15.50; No. 1 mixed \$18.50@14. 60@65c. Wheat is worth 96c; oats 40c; corn 77c; white beans \$1.60; red kidneys there is an active degrand and too little \$2 per bu.

THE LIVE STOCK MARKETS.

December 8, 1913. Buffalo.

(Special Report of Dunning & Stevens, New York Central Stock Yards, East Buffalo, New York). Receipts of stock here today: Cattle, 200 cars; hogs 140 double decks; sheep and lambs, 88 double decks; calves 800

head.
With 150 loads of cattle arriving today, our market was in good shape for the best grades of handy weight cattle; in fact everything fat, showing good quality, sold strong 10@15c higher than last week. All other grades selling steady to strong. Market closed fairly active with about everything sold.

week. All other grades selling steady to strong. Market closed fairly active with about everything sold.

We quote: Best 1350 to 1450-lb. steers, natives, \$8.50@8.75; one extra load holiday cattle, \$9.15; best 1200 to 1300-lb. steers, natives, \$8.25@8.50; best 1100 to 1200-lb. steers, natives, \$8.25@8.50; best 1100 to 1200-lb. steers, natives, \$7.75@8.15; coarse and plain weighty steers, natives, \$7.25@7.50; best Canada steers, 1350 to 1450 lbs., \$8.25@8.75; do 1150 to 1250 lbs., \$7.25@7.75; choice handy steers, 1000 to 1100 lbs., \$808.50; fair to good steers, 1000 to 1100 lbs., \$8.25@8.75; choice handy steers, 1000 to 1100 lbs., \$7.25@7.75; best cows, \$6.50@7; butcher cows, \$5.25@5.75; cutters, \$4.25@4.75; trimmers, \$3.25@3.75; very common old rims, \$2.75@3.25; best heifers, \$7.15@7.60; medium butcher heifers, \$6.35@6.85; light do, \$5.85@6.35; stock heifers, \$5@5.25; common light heifers, \$4.425; best feeding steers, dehorned, \$7.25@7.50; fair to good do, \$6.50@6.75; fancy stock steers, \$6.50; best do, \$5.75@6.25; common light do, \$5.25@5.50; best heavy bulls, \$6.75@7.25; best butcher bulls, \$6.50@7.25; best butcher bulls, \$6.50@7.25; common to good, \$5.66; best milkers and springers, \$75@100; medium to good, \$50@70. We had a liberal supply of hogs today

springers, \$75@100; medium to good, \$50@70.

We had a liberal supply of hogs today but with good demand all classes sold higher. About everything, outside of roughs and stags, selling at 8c per lb. A few selected medium weights a little more. Roughs sold from \$7@7.50; stags from \$6@7. Market closed steady and a good clearance was made.

The lamb market was active today; prices steady with the close of last week. Choice lambs selling from \$8.15@8.25. Close strong. Sheep active, prices about 10c higher than the close of last week. Look for steady prices on lambs balance of week.

We quote: Choice lambs, \$8.15@8.25; cull to fair do, \$5.50@8; yearlings, \$6@6.50; bucks, \$3.50@3.75; wethers, \$5.25@5.50; handy ewes, \$5@5.25; heavy ewes, \$4.75@4.85; cull sheep, \$3.50@4; veals, choice to extra, \$11.50@12; fair to good \$10@11.25; heavy calves, \$5.50@8.

Chicago.

genand for turkeys is moderate with prices unchanged. Quotations on live age:

Turkeys, gor run [34c; spring chickens in the prices unchanged. Quotations on live age:

Turkeys, gor run [34c; spring chickens in the prices unchanged wholesale lots, Michigan flats unchanged. Wholesale lots, Michigan flats unchanged. Wholesale lots, Michigan flats to ream, [16174c; limburger, 44/46] for cream, [16174c; limburger,

with sales at \$00000; at \$100 per bu; cabbage at \$60000c; celery is moving freely at 30c per bunch; chickens, dressed, 20c lb; butter 35c. Loose hay is not offered liberally and the prices range from \$150018 per ton.

| GRAND RAPIDS. | Greatly increased receipts of hogs day after day last week tended to hold in check the recent increased rallying power of the market, notwithstanding a very good local and eastern shipping demand much of the time, and lower levels of prices were reached, buyers taking an independent stand. Owners contemplating marketing hogs from now on should use extra care in ascertaining the most favore of a reliable live stock commission from, as well as exercising their own judgment, for it is probaly only a question of time, after the rush to ship is overous 7c; white beans \$1.60; red kidneys \$2 per bu.

ceived are still largely of light weight, there being a liberal percentage of pigs and underweights, and for this reason these offerings have to go at a large discount, while choice heavy lots are bought up first, these bringing substantial premiums over all others. The consumption of fresh pork is as large as ever, making a quick outlet for light hogs and pigs, and there is an increasing cash demand for provisions at better prices than prevailed some time ago. Combined stocks of provisions in the five leading western markets on Dec. 1 aggregated 137,603,200 lbs., comparing with 130,368,603 lbs. a month earlier and 108,089,904 lbs. a year ago. After the best hogs had fallen to \$7.75, a reaction set in that left prices at the week's close at \$7.25@7.90 for ordinary light to prime heavy lots, with sales of pigs at \$5@7.25 and throwout packing sows at \$7@7.40.

Sheep and lambs have been placed in the predicted stronger position recently, the shutting down of the range shipping season resulting in removing this competition, and much reduced supplies of live muttons have ran prices up all along the line, sheep and lambs selling at good values when offerings were good in quality. The character of the demand has not changed much, and killers are discriminating against flocks of lambs or yearlings that average much more than 85 lbs. It is very late to look for considerable offerings of feeders, and any desirable flocks of these command very high prices. Prospects for the future of the market appear bright, but stock must be fat to bring proper returns. Lambs advanced during the week to \$8, weakening later and closing on Saturday at \$6@7.85, with feeders quoted at \$\$@6.90. Yearlings closed at \$5.75@6.85, wethers at \$4.65@6.50, ewes at \$3.25@4.75 and bucks at \$3.50@4. at \$3.50@4.

MICHIGAN CROP REPORT.

Wheat.—The condition of wheat as compared with an average per cent is 98 in the state, central and northern counties, 94 in the southern counties and 102 in the upper peninsula. One year ago the per cent was 90 in the state and southern counties, 88 in the central counties, 91 in the northern counties and 97 in the upper peninsula. The total number of bushels of wheat marketed by farmers in November at 92 flouring mills is 113,130 and at 92 elevators and to grain dealers 70,395 or a total of 183,525 bushels. Of this amount 133,096 bushels were marketed in the southern four tiers of counties, 36,107 in the central counties and 14,322 in the northern counties and upper peninsula. The estimated total number of bushels of wheat marketed in the four months, August November, is 2,750.000. Sixty-two mills, elevators and grain dealers report no wheat marketed in November.

Rye.—The condition of rye as compared with an average per cent is 96 in the state and central counties, 95 in the southern counties, 97 in the northern counties and 101 in the upper peninsula. One year ago the per cent was 92 in the state and northern counties, 93 in the southern counties, 91 in the central counties and 96 in the upper peninsula.

Fall Pasture.—The condition of fall pasture as compared with an average per cent is 95 in the state, 92 in the southern counties, 94 in the central counties, 98 in the northern counties and 104 in the upper peninsula.

Live Stock.—The condition of live stock throughout the state is 97 for horses caf-

the northern counties and 104 in the upper peninsula.

Live Stock.—The condition of live stock throughout the state is 97 for horses, cattle and sheep and 94 for swine. Crop correspondents report hog cholera in the counties of Berrien, Branch, Calhoun, Cass, Clinton, Emmet, Hillsdale, Ingham, Jackson, Kalamazoo, Lenawee, Macomb, Mason, Menominee, Ontonagon, Saginaw, St. Joseph, Washtenaw and Wayne.

CROP AND MARKET NOTES.

(Continued from page 545).

November more or less rainy, but as the corn was less than half a crop nearly all husked now, but none has been marketed yet. I hear of some spoiling in cribs on account of the very wet and warm weather. Ordinary years 10 to 15 per cent of corn has been marketed by now. Grass green in pastures, and ground is full of water; roads nearly impassable; temperature 55 degs. now and has not been below 40 for the last ten days. Nothing being marketed by farmers now and

been below 40 for the last ten days. Nothing being marketed by farmers now and will not be until it freezes and the roads get better. In general, the season has not been very profitable one for farmers, very light crop of everything owing to the dry summer. Corn 57c; oats 36c.

Marion Co., Nov. 28.—Owing to the mild fall, the pastures remain good. Even the late-plated wheat and grass are growing nicely. As corn is scarce, hogs are rapidly being butchered off for home use. The roads are in poor condition. Many apple orchards are being cut down in order that peach trees may be set out. The chief products marketed are:

Many apple orchards are being cut down in order that peach trees may be set out. The chief products marketed are: Hogs 7c; chickens 10c; eggs 35c; butter 30c; geese 9@10c. While 1913 has been a very poor year in some respects, yet an extra good yield of fruit has done much to offset its ill effects.

Wisconsin.

Polk Co., Dec. 1.—We have had foggy weather and rain every day for about two weeks. Farmers are busy plowing every day and will be about done if this weather stays a few days more. Farmers have plenty of feed on hand; corn shredding is about done now, and corn turning out good. A few carloads of hogs are now ready for market but farmers are holding them for higher prices. Hogs are selling at about 7c; beef 5c; eggs 37c; butter 36c. Potatoes were damaged by the first freeze up we had but they are selling at 45c per bu. Farmers wishing to buy apples here at the stores have to pay \$5.25 per barrel for any of the winter varieties. Farmers are holding all their grain for higher prices. Oats 34c; barley 46c; wheat 90c.

THIS IS THE FIRST EDITION.

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.

December 4, 1913. Cattle.

DEFROIT LIVE STOCK MARKETS.

Thursday's Market.

Thursday's Market.

Thursday's Market.

Thursday's market.

Thursday's market.

The complex of the complex

Roe Com. Co. sold Sullivan P. Co. 2 av 175 at \$9.50; to Rattkowsky 7 av 175 at \$6; to Burnstine 2 av 140 at \$9, 7 av 175 at \$11, 1 weighing 120 at \$7, 3 av 150 at \$10, 2 av 100 at \$8, 1 weighing 180 at \$11.

Haley & M. sold Newton B. Co. 1 weighing 160 at \$11, 3 av 150 at \$11; to Ratner 2 av 170 at \$9; to Mich. B. Co. 4 av 155 at \$11, 1 weighing 120 at \$11, 1 weighing 150 at \$10, 13 av 150 at \$11.

Bishop. B. & H. sold Hammond, S. & Co. 3 av 165 at \$11; to Sullivan P. Co. 7 av 160 at \$10.75, 8 av 155 at \$10, 2 av 320 at \$8, 6 av 160 at \$10. 2 av 170 at \$11; to Parker, W. & Co. 4 av 145 at \$10.75, 3 av 140 at \$9, 1 weighing 250 at \$6, 3 av 100 at \$7.50; to Rattkowsky 1 weighing 160 at \$7.50; to Rattkowsky 1 weighing 160 at \$7.50; to McGuire 19 av 130 at \$11, 2 av 145 at \$10.50; to Mich. B. Co. 2 av 160 at \$10.50; to Mich B. Co. 2 av 160 at \$10.50; av 145 at \$10.75; to Mich. B. Co. 4 av 145 at \$10.75; to Mich. B. Co. 4 av 145 at \$11.75; to Mich. B. Co. 4 av 145 at \$11.75; to Mich. B. Co. 4 av 145 at \$11.75; to Mich. B. Co. 4 av 145 at \$11. 2 av 135 at \$10.75.

Sheep and Lambs.

Receipts. 6467. Market steady with

butchers av 743 at \$5.50; to LaBoe 4 do av 735 at \$6.35, 14 stockers av 651 at \$6.50.

Veal Calves.

Receipts, 495. Market steady. Best, \$11; others \$8@10.50.

Spicer & R. sold Burnstine 5 av 120 at \$10.15, 1 weighing 180 at \$10, 1 weighing 180 at \$11; to Parker, W. & Co. 1 weighing 320 at \$11; to Parker, ing 180 at \$9, 9 av 140 at \$10.50, 3 av 140 at \$11, 4 av 140 at \$10.25, 18 av 135 at \$11.

Veterinary.

CONDUCTED BY W. C. FAIR, V. S.

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

Wounded Fetlock.—I have a polled boracic acid ointment, prescribed by local Vet., but I would like to have you prescribe a healing remedy. I. C., Hightstown, N. J.—Apply one part iodoform and 10 parts boracic acid to wound daily and cover sore lightly with oakum and bandage. I am not familiar with the formula of liniment you inquire about.

Chronic Fistula of Withers—Worms.—I have a six-year-old mare that has been troubled with fistula of withers—for the past six months and I would like to know the best treatment. Her general health is good and she is not lame. Have another 12-year-old mare that is troubled with worms, she is thin, but has a good appetite and I would like to have you give formula for condition powder. W. T. H., Tarrytown, Md.—In the treatment of fistula, it is usually necessary to do some surgical work; therefore I advise you to have her treated by a Vet; or apply one part iodoform and four parts boracic acid once a day. This medicine should be put to bottom of cavity and give her a dessertspoonful of Fowler's solution at a dose twice a day. Mix together equal parts powdered sulphate iron ground gentian, ground ginger, ground nux vomica and fenugreek. Give a tablespoonful at a dose two or three times a day into the fourth one is down. One Vet calls it spinal meningitis and another one calls it paralysis of the muscles and nerves. Now I would like to know whether it is caused by grazing on low ground or drinking spring water, and whether it will pay me to treat such cases. If they get well, will they be able to work again? This disease seems to come on suddenly and when the horses get down, they are unable to stand on hind legs, but sit up like a dog. Their legs move much like a horse trotting, and when we lift them up they wabble and often fall. One horse was taken sick Friday and we helped him up, but when up, could not remain standing long without assistance and he died the next morning. Some four days later another one took sick and for eight weeks I had him in slings hopping to pull him thr

to bunch three times a week.
Old Cow Died of Paralysis.—I had a
cow 14 years old freshen Oct. 1, turned
her out to pasture soon after calving—the cow 14 years old freshen Oct. 1, turned her out to pasture soon after calving—the weather was quite chilly, she stiffened in both hind quarters, moved about very little, and in 24 hours got down. Next day she got up without help, drank considerable spring water, ate some grass, but by night she was down and unable to get up. The next day I hauled her to barn and wher, she laid on right side she was fairly comfortable, but it distressed her when on left side. She became quite helpless and remained down, but suffered no pain. After being down four weeks, I hoisted her up with sling, but as she did not help herself any and was apparently growing no better, I killed her. Our local Vet, tells me that she suffered from afterbirth paralysis. I did not keep her in the sling long and neighbors tell me that if she had been kept in it for a few days, she might have recovered. Do you think I made a mistake in killing her? W. C. K., Chesaning, Mich.—The only mistake that you made was in not killing the cowearlier. She no doubt took cold, resulting

in congestion of spinal cord which resulted in paralysis of hind quarters. In my practice I usually destroy them if they show no improvement in ten days. It would not help her recovery to have placed her in slings, unless she was able to stand erect alone.

Cow Slavers.—I have a cow that slobbers and grits her teeth, ears lop down and she is not thriving. I examined her mouth, found her teeth rather sharp, but every one sound. When she eats she chews very slowly and does not drink as much water as she should. W. S., UDly, Mich.—Give her 1 oz., ground gentian, to z. bicarbonate soda and 1 dr. ground nux vomica at a dose either in feed or as a drench three times a day. Feed her dry meal instead of slop.

Choking—Spasm of Larynx—Epileptic Fits.—I have a pig about three months old that has been thriving fine until recently when he commenced to eat, he suddenly became nervous, front feet and head began to jerk and shake, then he backed up and fell over in a sort of fit, but soon recovered and commenced eating as if nothing had happened. I feed him milk, middlings and corn and am afraid of my other pigs becoming affect—(Continued on page 549).

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We get the top price on consignments, make liberal advancements and prompt remittances

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ce, Washington Trust Company, or any bank in city.

FARMERS—We are paying 5 cents above the Detroit Market for new-laid eggs shipped direct to us by express. Write us for information. It will pay you. American Butter & Cheese Co., 31-33 Griswold St., Detroit, Mich.

Griggs, Fuller & Co., Wholesale Commission House, potatoes, poultry and rabbits. Quick returns.

COW PEAS WANTED I want to buy Cow Peas and Soy Beans. Send samples with lowest price. L. C. BROWN, LaGrange, Ill.

For Sale^{-A}, 300 quart milk business. Buy milk at 3 cents per quart \$1.50 per cwt.) and sell for eight. Profit 5 cents. Investigate this promptly. Horses, wagons, complete equipment, all for \$1500. \$1000 cash, balance payments. Address owner, D. O. CURTISS, 460 Isaac St., Lansing, Mich.

Farms and Farm Lands For Sale

VALUABLE STOCK and GRAIN FARM For sale or rent. Write A. M. D., Irwin, Va. care Bolling Stock Farm.

ELEGANT MICHIGAN FARM—200 acres, all fenced good orchard, \$17,000 in buildings, \$12,000 down. Write for particulars. J.A. Bockwood, Hastings, Mich

FOR SALE-75 Acre farm 30 mi. from rich loam soil, large nine room house, 3 barns, other outbuildings, good fences devel, well drained, a bargain at \$5000. FRED MILES, New Hudson, Michigan.

BUY A FARM—In Montcalm or Kent County and prices. Come and see for yourself. MICHIGAN FARM HOME COMPANY, Greenville, Michigan.

Fertile Farms and unimproved lands in Delaware, diversified farming, live stock, delicious fruits and ideal homes. For information address, State Board of Agriculture, Dover. Delaware,

Virginia Farms for Sale Prices right. Terms tile. Mild climate, best markets. We have farms from 5 acres to 5000 acres. Write for our free illustrated Catalog. Southside Realty fo., Inc., Fetersburg, Va.

MICHIGAN FARMING LANDS Near Saginaw and Bay City, in Gladwin and Midland Counties. Low prices: Easy terms; Clear title. Write for maps and particulars. STAFFELD BROTHERS, 15 Merrill Building. Saginaw, (W. S.), Michigan,

2500 ACRES cut over hard wood land near adapted for stock and fruit raising. Address, JACOB SCHWARTZ. Saginaw, Michigan.

MICHIGAN FARMS and FARM LANDS For sale or trade; reliable information furnished on any part of state. If you wish to buy, sell or trade, write

J. D. BUTTERFIELD, 521 Hammond Bldg., Detroit 154 Acres 10-room house, two barns, 30x40, 20x40 house, all good condition. Apples, plums, cherries and pears, hundred thousand saw lumber. 2 miles to railroad town and milk shipping station to New York City, 34500, part cash. HALL'S FARM AGENCY, Owego, Tioga Co., New York.

ARMS Send for our FARM CATALOGUE.
100 VLEWS of FRUIT POULTRY.
100 VLEWS of TEN MILL.
100 VLEWS of FRUIT POULTRY.
100 VLEWS of FRUIT

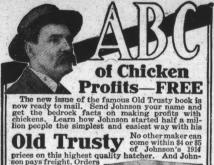
CALIFORNIA.

Not fiction but proven facts. Twenty acres at FAIRMEAD. California, will support family, forty means fortune. I know man who bought twenty acres four years ago, paying \$625 down. Crops paid balance. Last year produced \$2,000 and he could sell for \$10,000, No snow—no ice—no floods—no syclones—cattle, hogs and chickens on green feed all the year, I will take your Michigan farm in exchange. Special excursion in January at \$10 less than regular fare. F. P. TOMS, 21 McGraw Bldg., Detroit, Mich.

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9 Truck Farms, 5 Fruit Farms, 4 Stock Farms, from 10 to 520 acres each, located in the heart of the Trucking and Fruit Belt of the South near the Gulf Coast. Delightful Climate: growing season 376 days; even rainfall, no irrigation: can produce 2 and 3 crops, average temperature in winter 49°, in summer 79°; elevation over 300 feet above sea level; all kinds of Garden Truck Frows to perfection as well as Oranges, Grape Fruit, Fisa, Grapes, Strawberries, Pecans, also all farm crops, and Cattle, Horses, Sheep, Swine and Foultry. Close to Railroad and Good Markets.

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Write at once for new ook whether you star ow or not. Address JOHNSON
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CHAS. W. RUDD & SON, Detroit, Michigan.

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M. B. TURKEYS—Large with fine plumage. Toms \$6 Hens \$4. Fawn and white Indian Runner ducks, Drakes \$2 Ducks \$1. Collar Bros., Coopersville, Mich?

BARRED ROCK COCKERELS - \$2.00 each, two for A, A. WOOD & SON, Saline, Michigan.

BARRED ROCK COCKERELS—\$3 each, two for \$5 Large, farm raised, Winners for 10 years. J. A. Barnum, Union City, Mich

Barred Rock Cockerels and Hens, Bargain Prices W. O. COFFMAN, R. No. 6, Benton Harbor, Mich. PLYMOUTH Rock cockerels 5 lb. to 11 lb., according to age. Price \$2 to \$8. Mammoth Bronze Tom Turkeys 8 lb. to 35 lb., according to age. Price \$8 to \$55. Eggs in season. A. E. CRAMTON, Vassar, Mich.

PRIZE WINNING Barred Rocks, R. I. Reds, High Runner and Pekin ducks, Sper trio. circular free EMWOOD FARM, R. R. No. 13, Grand Rapids, Mich.

COLUMBIA Wyandottes, Winners at Chicago, Grand Rapids, South Bend and St Joseph. Stock and eggs-RICHARD SAWYER, Benton Harbor, Michigan,

PINE CREST WHITE ORPINGTONS won at State Fair 1st and 3rd cockerel, 1st and 3rd hen and ist pullet out of seven entries. Stock for sale Mrs. Willis Hough, Pine Crest Farm, Royal Oak, Mich

A Fine bunch of Single and Rose comb R. I. RED COCKERELS for sale. Prices reasonable.
O. E. HAWLEY, R. No. 3, Ludington, Mich.

LILLIE FARMSTEAD POULTRY B. P. Rocks, R. I. Reds, and S. C. W. Leghorn egg for sale. 15 for \$1: 26 for \$1.50: 50 for \$2.50. COLON C. LILLIE. Coopersville. Mich.

SILVER, GOLDEN and WHITE WYANDOTTES. White Stock Especially good, send for circular, Browning's Wyandotte Farm, R. 30, Portland, Mich.

WYANDOTTES—Bred from great laying strain of blue ribbon birds. \$2 each. Satisfaction guaranteed. F. E. Cowdrey, Ithaca, Mich.

WHITE WYANDOTTE COCKERELS from heavy layers and thoroughbred stock. \$2 up. Write wants. A. FRANKLIN SMITH, Ann Arbor, Mich.

WHITE LEGHORN COCKERELS—Wyckoff Strain, Maple City Poultry Plant, Box C., Charlotte, Mich.

DOGS AND FERRETS.



HOUNDS FOR HUNTING Fox, Coon, Skunk FERRETS and Rabbits.
Send 2c stamp. W. E. LECKY, Holmesville, Ohio,

2,000 FERRETS They hustle rats and rabbits. Small, medium and large. Prices and book mailed free. NEWELL A, KNAPP, Bochester, Ohio.

Turning Honey Crops Into Cash.

Experiences of a Young Bee-Keeper in Developing a Market.

not be gifted in that direction very much by underselling my competitor. naturally. Then again, there are some Enlarging the Consumptive Field. who would never attain any success as trouble in selling it.

The other two principal ways of dis-

sumer. and selling, are practicing it every day this line. Before you sell to them you must know just what you want for your honey, what points of merit you can that there is a chance to handle it at a profit. If you can prove this to them, to their satisfaction, they will usually try it. And right here let me caution you about a mistake many make. Don't urge a customer to take too much at a time. Sometimes you might induce a merchant to take on a stock of honey that he could hardly sell in the course of a year, and perhaps congratulate yourself on the big sale you have made, but it will usually prove the most unprofitable one you have made. Honey will keep in good condition only a few months unless handled by someone who understands it, which nine out of ten merchants do not. Generally if a merchant gets a lot of honey on his hands which becomes candied or otherwise out of condition for ready selling, he will soon become disgusted with the whole business and the next time you will find it hard to sell him at all. Better sell him a small order at a time-enough to last him a few months-and then be ready to supply him again at the close of that period. However, you will find some big dealers who understand handling it well that it is safe to sell them a year's supply at once.

Selling Direct to the Consumer.

But if one is a good salesman, and has the time, the best way of all is to sell direct to the consumer. As I have had pretty fair success along this line, perhaps some of my experiences may be of help to others.

Several years ago, when I first came into this neighborhood and commenced to sell honey, I found that the principal beekeeper here was selling his honey at from five to six cents per pound. We were both running for extracted honey, principally, but I also produced some comb honey and found that it was selling for about ten cents per pound for the best grade. Such prices were not profitable and, further, they were far below the markets outside.

At that time I knew nothing about how not possess I could not sell it for any better figure. So the first thing I did was cents for extracted and 12 cents comb, which was two cents above the raw corn meal and bran. prices asked by my competitor. However, ed the price to nine cents, and my com- will eat it with great relish. petitor, taking advantage of the price I the customer furnishes or returns the day, for best results. cans, and, although the other man still We feed the geese grain twice a dayfour out of five places I visit. The bal- green stuff or roughage to nibble at "be- in the long run, are equally satisfactory.

while some attain a certain degree of the lower figure. This I consider much gan to look for a larger one. As a beability as salesmen by practice who may better than if I had tried to get the trade

However, this trade I have managed to salesmen if they tried ever so hard. To secure from the other man's territory, these latter I would say that it is best to which territory I really had as much right The honey from the exhibit was sold to sell your honey to some man who can to as he, is the smallest part of the gain. handle the whole lot at once. It requires The real gain is in the customers who less salesmanship to do this than to retail have not been in the habit of buying and as I gave them a fancy article they it out. If you take a bee journal, or a honey at all, many of whom thought they good agricultural paper, which you cer- did not like it, and many more who tainly ought to do, you can easily find thought they could not afford it. Many I could have done in any other way. out what the market is, and if your hon- of those who thought they did not like Since that time I have sold a large ey is up to the standard you will have no honey at all I have persuaded to try little samples of the different grades. When I have found a grade they like I have tried posing of honey are to sell to the retail to remember which grade to sell them dealer or direct to the consumer. and some of these are among my good In selling to the retail dealer one finds, customers now. To those who think they fairs. perhaps, more need for good salesman- cannot afford it I explain that, while hon-ship than when selling direct to the con- ey has four times the food value of beef, ey has four times the food value of beef, This is because of the fact that pound for pound, it sells for less money, the retailers make a business of buying and that if used in the place of butter it will go as far and costs less. Also that in five and 10-lb. pails. The rest of it is and are, as a result, highly proficient in it is economical to use for sweetening purposes in baking, etc., as such baked goods keep fresh much longer than when In selling honey in this way one of the sweetened with sugar. As to the matter main requisites is to have it look tasty claim for it, and be able to show them of health, I explain that while honey has all the great food value of sugar, which but if not put up in a tasty manner it exceeds nearly all other foodstuffs, it is even better than sugar from the fact that a customer who keeps my honey in the it is pre-digested by the bees, making it house all the time, and as he is well acmuch easier on the stomach. This procquainted there he sells an enormous

effects that often go with the consumption of sugar, it is evident that honey is much healthier than sugar.

How I Reach the Distant Consumer. In the course of time my honey busi-Some men are natural born salesmen, ance prefer to buy the other honey at ness outgrew my home market and I beginning, I made an exhibit at the West Michigan State Fair and sold honey from the exhibit direct to the consumer, also in larger quantities to dealers, which latter was not delivered until after the fair. consumers at about the same price they would have had to pay their dealers, were always well pleased. At the same time I secured a much better price than

> Since that time I have sold a large part of my honey in this way. The premiums usually pay all expenses of the trip, etc., and I sell a lot of honey at extra good prices. I have not only exhibited at Grand Rapids but also at Detroit and other large

> The honey for this purpose is put up in several ways to suit the various needs of consumers. Some is carried in the large 60-lb. cans, some in gallon cans and some in glass jars bearing a neat label, mostly in pound and half-pound sizes.

and neat, for honey may be ever so good will not sell. In Grand Rapids I have much easier on the stomach. This proc-quainted there he sells an enormous ess of pre-digestion which goes on in the amount of honey for me.

Many other ways of selling direct to the cane sugar of the nectar into the grape consumer will suggest themselves to the wide-awake producer, and in nearly all actually poisonous to the system while cases can be made to work to the advan-grape sugar acts as a natural producer of tage of both producer and consumer.

L. C. WHEELER. Mecosta Co.

CARE OF GEESE IN WINTER.

honey stomach of the bee, converts the

sugar of the honey. As cane sugar is

heat and force without any of the bad

Geese will shift for themselves when forced to do so; but they do much better is used, we find it a good plan to add when given some attention all the year some cut clover, steamed, or some raw around, especially during the cold months.

When geese are not fed regularly and are otherwise neglected, they will not lay as many eggs, when the laying season aring. Sometimes this is fed dry, and rives, and the eggs will not hatch as well sometimes it is put into a shallow trough build expensive houses, but they should be given a dry comfortable place to stay whole corn out of water. We always take at night. A large shed, or, in fact, al- the chill off the water when the weather most any kind of an old building that is not in use, may be converted into a "goose barn." An open shed is not quite the proper place for geese when the mercury goes down to zero.

The writer once turned an old sheep shed into a winter house for a flock of geese. This shed, which was a sort of "lean-to," built at one side of a large barn, had no floor, but the ground was always dry. It was clean to begin with. A door was hung and two small windows put in. All open spaces in the siding were closed with pieces of lath for a distance of five feet from the floor. This kept the cold wind from blowing directly upon the geese. On cold blustery days the geese were kept indoors all day as well as at night. They soon became so accusthey learned to go of their own accord. We kept the earth floor well covered with to ship my own honey at a profit, so I straw and litter from the barn. The old end of the shed.

thoroughly mashed and then mixed with

It takes some time to get geese accusplace, occasionally, and I soon received eat what they have been used to eating, than 31/2 sq. ft. repeat orders from these people. As I However, if they cannot have their usual had only a small crop I managed finally ration they will gradually become accusto dispose of it all. The next year I rais- tomed to the new, when, as a rule, they

Raw turnips and other roots, chopped had made, also raised one cent. Comb rather small and mixed with bran and honey was also advanced a little and I corn meal, make an excellent ration. found much less trouble in selling than When silage is fed, no vegetables are re-I had the year before. At present I am quired. Some grain, either whole or perior to older hens. selling around home for ten cents, where ground, must be given several times a

tween meals," when they are housed in winter. Sometimes the grain is whole and sometimes ground. When the latter chopped cabbage, turnips, apples or anything of this nature that they will eat. We usually feed whole corn in the eventhey should. It is not necessary to and covered with water, or, rather, the ild expensive houses, but they should water is poured in first. Geese like to eat whole corn out of water. We always take is very cold.

Geese require grit, such as coarse sand, oyster shell, etc. We also provide plenty of charcoal and coal cinders

Ohio. ANNA W. GALLIGHER.

CAPACITY OF HENHOUSE, BEST LAYERS, ETC.

I have a good chicken house 12x16 ft. and will add a sleeping apartment to it. How many hens can I profitably keep in this house Would spring pullets be as good to lay as older hens this winter? What breed of hens is best for laying? Shlawassee Co. E. M. A.

The number of hens depends somewhat upon the construction of the house. If it is an open-front affair, insuring an abundance of fresh air at all times, it tomed to being driven to shelter that will be su%cient to allow 4 sq. ft. of floor space per fowl. Even a little less would probably answer in this case since the space you mention is only to be occupied had to figure out a way to sell here and sheep rack was used for roughage, such by the hens during the day when the air get something near what it was worth, as clover, silage, etc., when no grass and sunshine can be let in freely. Wheth-I knew that if I could claim no merit for could be found in the fields. A water or the fowls are of a large or small breed my honey that the honey of others did trough was placed inside of a rack at one must also be taken into consideration, but, roughly, it may be said that the A goose will eat almost anything that house, under the conditions described to take a lot of pains in producing a su- cattle, hogs or sheep will eat except above, should accommodate about 50 hens perior article, allowing it to ripen thor- coarse hay. They like whole heads of of the medium or so-called general-puroughly on the hive, getting my comb clover; also wheat and oats in the straw, pose breeds. If the house is of the closhoney as nicely finished as possible, etc. They seem to prefer raw food to any kind ed type, with rather inadequate facilities The first year I had a lot of trouble in of cooked mashes, although they will eat for ventilating, a larger allowance of floor selling as I had put the price at eight cooked vegetables when the latter are space must be made. Before the advent of fresh-air poultry houses it was customary to allow from 5 to 6 sq. ft. of floor space per fowl. Now some users of managed to sell a pound or two in a tomed to any new ration. They like to open-front houses are giving not more

Pullets that were hatched as early as April or May and so cared for as to make steady growth and development should be laying now and, with proper feeding, should prove excellent egg producers throughout the winter. They can hardly be expected to do as well as hens of last year's hatching but should prove far su-

There are many good laying breeds. The Leghorns are generally credited with being the most prolific layers but there sells for eight, I find that I can sell in morning and evening-with some sort of are strains of many other breeds which,

VETERINARY.

(Continued from page 547).

(Continued from page 547).

ed. F. H. M., St. Louis, Mich.—If you will feed your pigs warm sloppy food in shallow trough, they will not choke and have this fitty condition occur. Give some ground gentian in their feed, a teaspoonful to each pig three or four months old, once or twice a day.

Mule Has Sluggish Kidneys.—I have a five-year-old mule which for about a year has been bothered by spells with weak kidneys and a portion of the time the urine is thick and cloudy; besides, she dees not pass enough water. I have thought she showed the effects of pain before urinating. I have given her medicine which gave relief for a few weeks, but I would like to know what you prescribe as a remedy that will effect a permanent cure. B. F. W., Ludington, Mich.—It will be necessary for you to give your mule some medicine occasionally to stimulate kidneys into action. Buchu is a mild and useful diuretic, but it is too expensive; therefore you had better give a teaspoonful of powdered saltpeter at a dose two or three times a day for a few days, then occasionally give it when you believe it necessary. Also give a tablespoonful or two of cooking soda at a dose in feed twice a day.

Cow Gives Bloody Milk.—I have a tenyear-old cow that freshened one week ago which has given bloody milk. This cow gave bloody milk a year ago when she came frosh. T. B., Sullivan, Mich.—Feeding too much nutritious food to some cows has a tendency to cause them to give bloody milk; however, it can generally be traced to an accident, at which time the udder is bruised. Make an effort to ascertain the cause, then remove it and she will get well. A little blood in the milk will do no harm. Apply one part tincture arnica and eight parts cold water to udder three times a day.

Elephantiasis—Chronic Lymphangitis,—I have a 13-year-old horse that had an attack of farcy some four years ago and

water to udder three times a day.

Elephantiasis—Chronic Lymphangitis,—
I have a 13-year-old horse that had an
attack of farcy some four years ago and
it left one hind leg enlarged; since then
the leg seems to have increased in size
and at different times opened and discharged pus. Whenever this horse has
sore neck he is ugly to handle, we have
to rope him and he occasionally falls down
while resisting us. If you can give me to rope him and he occasionally falls down while resisting us. If you can give me any advice that will benefit him, I shall be glad, for he is a useful work horse. S. E. G., Chilson, Mich.—Your horse first suffered from lymphangitis and has doubtless had frequent attacks since, it being a chronic allment, it is doubtful if treatment will benefit him much. After the leg becomes very large, the animal always has difficulty in getting up, when down. Give him a dessertspoonful of Donovan's solution three times a day and a teaspoonful of powdered nitrate of potash. His bowels should be kept open, he should have daily exercise and some vaseline applied to skin to soften it.

Sprained Tendon—Fistula.—I have been

should have daily exercise and some vaseline applied to skin to soften it.

Sprained Tendon—Fistula.—I have been watching the veterinary column for some time for a remedy for my eight-year-old mare. The tendon of her right hind leg is badly sprained. She is able to work about half of the time. I have blistered it severely, applied liniment; have also had her shod with high heel. All my efforts have failed so far, except affording her temporary rellef. She also has two openings in between jaw bone, so when medicine is injected in one opening it comes out of the other. I also think some of it passes into the mouth. I do not know the full history of this case. Have injected iodine, but it fails to do much good. Would I dare use concentrated lye? O. McE., Pompeii, Mich.—In my practice I always fire a tendon of this kind and invariably obtain much better results from it, than from counter-irritants and blisters. Have her fired by a competent Vet. and give her 60 days rest and I believe she will stand up and do ordinary work the balance of her life. A fistulous tract with two openings is always difficult to heal and before you can obtain a union of the parts you will have to cut our sinews by applying a caustic, either pack it with burnt alum or sulphate of copper; or, if you can open skin between the open ends and make a raw sore, then it will heal. This case really requires the attendance of a veterinary surgeon. Packing with powdered alum might effect a cure; however, it is doubtful. You should not use concentrated lye.

Bone Spavin Lameness.—I have a lame horse one Vet sail the lameness is in

might effect a cure; however, it is doubtful. You should not use concentrated lye.

Bone Spavin Lameness.—I have a lame horse, one Vet. said the lameness is in hip joint, the other locates it in hock and says swollen joint is caused by poor circulation. The leg stocks and it all works out with exercise, except hock joint. The joint cracks when first taken out of stable and he shows lameness for a short distance. C. H. L., Carsonville, Mich.—I am almost inclined to believe the lameness to be in hock joint and if you will apply one part red iodide mercury and eight parts lad to entire joint every week and give him rest, I believe he will recover. Give him 1 dr. sodium salicylate at a dose in feed twice a day.

Mange.—My cattle have some kind of skin disease mostly affecting head and neck. They do not appear to itch, but the disease appears to be spreading. D. T. K., Bellaire, Mich.—Apply one part sulphur, one-half a part carbonate potash and three parts fresh lard to sore parts of skin every day. Give a teaspoonful of sulphur at a dose in feed twice a day.

Obstruction in Teat.—I have a cow that came fresh the first of the month and one of her teats has a growth in the upper part which makes it impossible to milk her without the use of a milking tube. What can be done to remove the obstruction? B. M. H., Fowlerville, Mich.—In my practice I invariably cut in and remove bunch of this kind; however, an operation of this kind must be done right and under septic measures, or else you will have trouble in healing wound; besides, a stricture of teat canal may follow. Try applying one part iodine and

eight parts fresh lard to teat directly over bunch every day or two.

Wart on Teat.—In reply to my question how to remove a wart from a cow's teat, you advised me to cut it off. I do not like to do this if it can be otherwise removed. Two years ago I wrote you of a like growth on the teat of another cow, calling it a toumor, and was advised to use a preparation of iodine with lard, which removed it, but I have forgotten the formula. The present growth is as large as the end of my thumb. J. H. K., Okemos, Mich.—By applying one part iodine and eight parts lard every day or two, you will be able to remove the bunch. Why don't you tie it off with a silk or linen thread tightly pulled around its base?

Weakness.—We have an eight-year-old Weakness.—We have an eight-year-old GREGORY & BORDEN, Howell, Michigan.

its base?

Weakness.—We have an eight-year-old collie bitch that for the past year has had some sort of kidney trouble. She may be all right for a month and then for a week or two, or even more, urine will leak from her as if she had no control of her bladder. She eats well and seems healthy otherwise. Mrs. G. H. H., Plainwell, Mich.—Give her 5 grs, urotopin and one-sixtieth of a grain of strychnine at a dose three times a day.

LIVE STOCK NEWS.

Prof. W. J. Kennedy, of the Iowa State College, says: "Hog cholera cost the country almost one billion pounds of meat last year—enough to supply ten pounds to every man, woman and child in the United States. The bearing of this upon the cost of living is apparent. The loss in Iowa alone amounted to 150,000,000 lbs. of pork. This year the loss will be still greater. Iowa farmers will lose \$20,000,000 because of the disease."

It is generally expected that with se-

It is generally expected that with severely cold winter weather, the awful ravages of the hog cholera will be stayed. In past years it has raged the worst during the months of September and October. In west central Illinois farmers report that the careful use of serum has worked wonders in checking the malady. Reports come from Iowa that the state serum factory plant, recently built at a cost of \$20,000, is now behind a month and a half in furnishing serum to farmers, having pens for handling 1,000 pigs.

A. J. Lovejov, the president of the In-

A. J. Lovejoy, the president of the International Live Stock Exposition, lives on his large farm in Roscoe, Ill., where he is mainly occupied in breeding Berkshire hogs. He is widely known as one of the celebrated swine breeders of the United States.

United States.

An extremely important effect of the removal of the United States duty on wool on the first day of December is found in the extensive purchases of sheep made recently by Western Canadian sheepmen for breeding purposes. It is learned that one big breeder in the northwestern province of Alberta purchased quite recently 24,000 head in this country, while several flocks ranging from 30,000 to 40,000 head have been acquired within the last few weeks by sheep ranchers of Saskatchewan.

About 75,000 Texas calves have been

About 75,000 Texas calves have been moving from the breeding districts of that state towards the feeding districts of the corn belt, Illinois, Indiana and Ohio receiving most of them.

Most of the good beef cattle imported from Canada under the new tariff law have come from the province of Alberta, and most of the Ontario cattle brought over were thin stockers or poor canner cows that were painfully thin. Canada has a very short supply of beef cattle, with none that can be spared for exportation.

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Practical Science.

EGGS AS A FOOD.

BY FLOYD W. ROBISON.

(Continued from last week).

Average Per Cent of Good Eggs Too Low. As we stated in our previous discussion, there are only between 50 and 70 per cent on the average, of all the eggs marketed. that will grade No. 1. From 30 to 50 per cent of the eggs are divided among the other four classes: Dirty eggs, No. 2, cracked eggs, and rotten eggs. With proper care in the production of the eggs, With class called dirty, and also No. could have been included with grade No. 1, and with more care in the handling it seems as though the percentage of cracked eggs could have been materially less-From four to 20 per cent loss due to the cracking of eggs in packing or in transit is a pretty heavy toll to pay for careless handling.

If this Loss were Prevented How would it Affect the Market?

It is interesting to contemplate what an effect it would be on the egg market details of egg production, the fowls have and possibly on the price to the consumer if this 25 per cent, or even 10 per cent, nests and opportunities for keeping themof eggs which, through the result of carelessness, graded lower than No. 1, could requisite is the prompt marketing of the be included as No. 1 and hence, being eggs. Of course, with our ideas of handmarketed, have their effect on the egg consumption. We do not think that there will be enough eggs under any condition ers the eggs to come suddenly upon a marketed in this country for a number of nest containing 12 or 14 eggs that he did years to in any material way lower the not know existed. Prompt marketing will to the general consumer but in more remote American cities, such as New or bad eggs. Another vicious practice York particularly, or even in cities like which has done much toward keeping the Detroit, the cost of eggs to the retailer is egg business an incidental business, has too much to warrant a healthy stimula- been the system prevailing in many tion of the market. Too many families places of using eggs as a sort of curgo without eggs because the price is pro- rency. Merchants buy eggs, expecting the hibitive, whereas if enough eggs could be marketed to hold the price 10 per cent lower, a much greater consumption of fact that he wants the business of the eggs would, in our judgment, take place. producer he will pay for the eggs without The Producer is Much too Blame for Egg

Deterioration. There is no use denying the premise that most of the blame for egg deterioraproduction of dairy butter. It is now well known that the greatest menace to the cording to their quality.

dairy industry is the one, two or three
The Cold Storage of Eggs. dairy industry is the one, two or threecow dairies. In an exactly analagous way this country is the small flocks of farms. business men that the average farmer is the most prodigal of business men, and if an ordinary business were conducted with the same degree of wastefulness and inattention to business details would mean ruin.

Large Poultry Units will Solve the Problem.

There was a time not very far distant when the dairy butter that was sold was in sufficient quantity to entirely control the market on butter, and there was no greater variety of product in existence than dairy butter. A consumer in the would be served to her the next day ununits and consequently the increased atof the dilemma.

Egg Producers Must Take Pride in their Business.

a class of eggs called No. 2. There is no consumer who will not pay more for good sized eggs than for those that come soiled breed of fowls in exactly the same way by the term "fresh."

that we maintain that the first requisite in dairying is the selection of a standard, staple type of an animal.

The egg business carries with it, of necessity, a poultry marketing business as well, for there comes a time in the growth of the young chicks when it becomes desirable to maket all of the males of the flock and this may become a source of considerable profit if taken up in the same intelligent way that we are advocating in the handling of eggs. It is now no longer a secret that egg production is not diminished by the absence of males from the flock. In fact, a non-fertile egg, other things being equal, has much better keeping qualities than does a fertile egg. An unfertile egg will become stale if kept a long time but it will not develop rots and the peculiar other phenomena, such as blood rings, etc., that are common causes of egg deterioration in ordinary market eggs.

Prompt Marketing is Essential.

After attention has been paid to the ample room for exercise, and have clean selves clean and in good health, the next ling of fowl there will be no lost nests and no opportunity for the one who gathreduce materially the percentage of stale seller to take his pay in merchandise at In this way, because of the his store. regard to quality. In other words, he will pay the producer by count instead of rejecting the eggs which are inferior or often bad. The egg business should be a tion rests with the producer himself. We cash business just the same as the milk have just the same battle to combat in business is a cash business, and only egg production that was prevalent in the those eggs which are valuable should be purchased or they should be graded ac-

It used to be quite a common practice the greatest menace to the egg industry among farmers to put down eggs, as it is called, or pickle them in some way durchickens kept as an incidental feature of ing the flush of the season so that they farming on the majority of American could be used or placed on the market In this respect it is no secret during the off season. These eggs as a rule, are very much inferior. A new system has arisen in this country to take the place of this procedure. This is the cold storage system. This system has been made to take the blame for practhat prevails on many of the farms, it tically all of the inferior eggs which are now on the market. It is very common to hear a consumer enjoin the market man that he must not under any circumstances furnish him with cold storage eggs. In the mind of the ordinary consumer cold storage eggs are inferior eggs. We think that the companies operating the cold storage houses are not blameless by any means in this matter, for all too city, buying butter, one day had abso- frequently eggs have been held in cold lutely no idea of what kind of a product storage when they had materially deprefrequently eggs have been held in cold ciated in quality and then suddenly the der the general term butter, and it was market was flooded with this class of not until there became organized cream- eggs so that the popular opinion of the ery associations and local creameries meaning of cold storage is an opinion for where farmers brought their milk to be which the cold storage operators themmade into an average community product selves are in a considerable degree too by an expert butter-maker that butter blame. We think cold storage is one of began to take its proper place among the factors helping to an intelligent and marketable products. This same condiproper solution of the egg marketing bustion exists in relation to eggs, today. The iness. The time to place the eggs in cold the question of quality arises principally which have begun to deteriorate are not because of this condition which we have fit to be placed in cold storage, for no described. The solution seems at hand, system of storage or preservation will It is the creation of larger poultry farm make a bad egg good. The best that can be hoped under ideal conditions, is that tention to poultry and egg production as deterioration may be checked and not a business that is going to be the solution permitted to go further, but as soon as a fermentative process has started in an egg, or an enzymic change commenced. cold storage will not entirely check the There is no excuse for the marketing of same and such eggs invariably come out a class of eggs called dirty eggs, neither of cold storage worse than they were is there an excuse for the marketing of when they went in. If, however, eggs of good quality are put into storage when perfectly fresh those eggs, if properly cared for and put upon the market when and of all sizes, to her hand. We think they should be upon the market, will be then, the first requisite in egg production much better by far than any of the ordiis the selection of a standard, staple nary eggs which are commonly designated

Grange.

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

THE DECEMBER PROGRAMS.

Suggestions for Second Meeting.

Music.

Down-to-date question box on foods and feeding. (Members number about the hall and odd numbers ask questions for even numbers to answer).

Review of 1913 in notable public events. Christmas poetry, by children and others.

Christmas exchange of good wishes.

NATIONAL GRANGE NOTES.

in the choice of the following: Master, Oliver Wilson, Illinois; overseer, W. H. Sherwood, Connecticut; chaplain, A. P. Reardon, Kansas; treasurer, Mrs. E. S. McDowell, Massachusetts; secretary, C. M. Freeman, Ohio; gate keeper, C. L. Rice, Minnesota; Ceres, Mrs. Richard Pattee, New Hampshire; Pomona, Mrs. J. C. Ketcham, Michigan; Flora, Mrs. J. A. Peckham, Rhode Island; Lady Ass't Steward, Mrs. H. Harland, Idaho; member of executive committee, A. B. Judson, Iowa.

The proposed amendment to the consti-Granges must hold at least one meeting each month, and at least six regular or special meetings per year, received favorable action by 12 State Granges, while two voted against it. As the amendment did not receive the necessary two-thirds vote, it was lost.

The Grange decided to retain \$100,000 in the treasury for permanent investment, and to use the surplus, after expenses are paid, for Grange organization at the rate of not over \$2,000 for present Grange states, and \$5,000 for states not now organized.

In regard to taxation the Grange declared for uniform tax laws in all of the states to prevent tax dodging from one state to another.

Last year a resolution creating a Bureau of Information, with the secretary of the National Grange at its head, was adopted. In response to a circular letter to the secretary of each State Grange in regard to this, the State Granges of Illinois, Iowa, Nebraska and Ohio reported that they had voted to establish such bureaus. New Jersey did not think the plan suited to their needs, but they were doing some co-operative work. Maryland reported no information bureau, but sent a copy of a trade notice sheet which they were using. Kansas reported that they had been working along this line, had been gathering information from all over the world as to co-operative movements, and were looking for a man to head this bureau who knows something of agricultural economics, but more particularly of the commercial operations of the country, marketing problems, etc. They have also been trying to put growers in corres-

front rank of industry must be invoked to the benefit of agriculture. The remedy for the high cost of living and the mea gre production of the soil, he contended lies in the correction of the existing chaos consequent wastes resulting from faults on the part of the farmer in the growing and handling of his products; from the machinery of distribution, including physical equipment and physical handling; from the manipulation of middlemen who perform no useful and necessary service; from ignorance on the part of the consumer of the character of the supplies which come to his table; from jealousies which exist in many states between state agricultural commissions and agricultural colleges and the con-Roll call, responded to by each giving localities. As an instance of the Department. sequent duplication of work in many ment's endeavor to eliminate waste, the Secretary stated that in the estimates just submitted to Congress it has been recommended that the distribution of or-The biennial election of officers resulted dinary vegetable and flower seeds be discontinued and that part of the \$300,000 heretofore devoted to this purpose be used Vary, New York; lecturer, G. W. F. to procure, progagate and distribute Gaunt, New Jersey; steward, F. C. Ban- among the people, new and valuable seeds croft, Delaware; ass't steward, J. A. and plants. He is clearly opposed to the multiplying propositions, touching the much discussed question of rural credits, which conceive the farmer to be a mendicant and a subject for special legilation, but will lend his support to any proposition which will assist in creating conditions and machinery which shall enable the farmer, on a similar credit foundation, to secure his money at the same rates as any other class in the community. He detailed the plan of investigation in the field of marketing which the Detution to the effect that subordinate partment has under way, and closed with a strong plea for co-operative action and rural organization

Memorial services were held Nov. 15 for the following prominent members of the order who have died during the year: O. H. Kelley, founder of the Grange, who died in February; Robert Eaton, master of Illinois State Grange; David L. Russell, past master Washington Grange; Levi Booth, past master Colorado State Grange; Richmond Coles, past master New Jersey State Grange; Samuel A. Houston, past master West Virginia State Grange; Sister Adams, wife of Samuel E. Adams, past master National Grange; Sister Patterson, wife of B. C. Patterson, past master Connecticut State

HOME-COMING AND THANKSGIVING MEETING.

On Saturday, November 22, the fortieth anniversary of Williamston Grange, of Ingham county, was observed by a Homecoming and Thanksgiving celebration participated in by about 100 present and former members and their friends. An appropriate Thanksgiving program was rendered in the forenoon, the feature of which was a talk on "What has the Grange to be thankful for?" by John Dexter. Crop yields in this part of the country, as compared with those in other parts, were mentioned, as were the generally favorable weather conditions here and our dependence upon that higher power which shapes and directs all things. Bro. Dexter also commented on the growth of the Grange and of the good effect of teaching agriculture in public schools. All these he summed up in an able manner as blessings which we farmers enjoy. A sumptuous chicken-pie dinner was served at noon upon tables beautifully decorated with yellow and white chrysanthemums and maiden-hair ferns. The afternoon program was given over to the home-comers, Master Leon E. Webb been trying to put growers in correspondence with buyers, and in this way have assisted in the selling of several hundred cars of apples, corn and alfalfa. Michigan reported the appointment of a special deputy who stands ready to go to any community and assist in the organization of co-operative selling associations for the marketing of such farm products as can be handled in carload lots.

Secretary of Agriculture Houston addressed the Grange on one of the early days of the mecting, his subject being "The Organization of American Agriculture." In sizing up agricultural conditions he stated that less than 40 per cent of the cultivated land in the United States is reasonably well cultivated, and that less than 12 per cent is yielding maximum returns. He regretfully referred to the fact that we have ceased to be a nation exporting food products and are becoming dependent upon foreign countries for the necessities of life, but contended that we have not reached the limit of our output from the soil—as a matter of fact have not reached the end of the pioneer stage. So absorbed have we become in building up great industrial centers that we have neglected and failed to think of the very foundations of our industrial existence, and he declared that his program and a moaiden-hair ferns. The afternoon program was given over to the home-comers, Master Leon E. Webb naking the welcoming address in which he home-comers, Master Leon E. Webb and maiden that he home-comers, Master Leon E. Webb and maiden, hair ferns. The action is struggled for all by factors and program and a maiden hair ferns. The action is needing the reviewed the history of the Grange in the reviewed the history of the Grange of the servible of sary truggles for existence and characterized it as the greatest organization ever started for and by farmers. The response was adde by Stanley Claffin, of Locke Grange. Webb and Mrs. Margaret Webb.—Were orsense. The roll of old members was then called by A. E. Andrews, Mrs. Amelia webb and Mrs. Margaret Webb—were o think of the very foundations of our inble measures can become a factor in govdustrial existence, and he declared that
the same business sense and organizing
genius that have placed the nation in the
ble held by this Grange.—Hazel Pfeifle.

Tribuna Bay City, Mich. 2 00 2 10
Blade, Tolodo. Ohio. 2 00 2 05
Buther Color of the same business sense and organizing genius that have placed the nation in the
ble held by this Grange.—Hazel Pfeifle.

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