

The Only Weekly Agricultural, Horticultural, and Live Stock Journal in the State.



Winter Work on the Farm.

wanted a time to recuperate. If the it paid you. past season has been a successful one, and we truly hope that it has, there rest and is about to get one.

ones and the granary and the cellar various firms so that you will know are filled to their capacity, then there where you can buy advantageously. is a contented feeling which every Perhaps you can buy a carload of feed farmer should enjoy. But winter is and fertilizer and thus save the midthe time when the profits are eaten dleman's profit, by buying wholesale. when most farmers sit by the stove load, perhaps you can get one of your and wait for the next season and neighbors to go in with you and there-However, there are a few jobs which Plan to buy your next year's supply are done at all, because you are too of it instead of a lot of smaller ones. busy to do them in the summer.

Plans for Next Year.

All of the general planning for the

the dairy business, or to raise pure- so that it, too, will be ready to use blooded stock, then you had better study up the question while you have Look up some of the performances of the various breeds and individuals in these breeds so that you will be posted and will not have to take another's word for it. And, of course, if you have a dairy herd then you will want to buy a silo, so inform ers. yourself on this question. A well informed man is the one who knows what he wants and why he wants it, and then he gets it.

Perhaps you have been unfortunate failed and he succeeded; satisfy yoursoil or your methods that were at

The Farm Inventory.

tangible to work on. Business men all over take an inventory each year equipment needed for a safe test. methods.

ones that are paying for their board farmers are testing their seed corn, out on the table or floor. The seed was ever noticed. Colon C. Lillie.

OW that the days have begun to and lodging and a profit besides. Pick

The Farm Equipment.

The cold stormy days are the days farmer to feel that he has earned a will have to buy the next year. Find out how much fertilizer you will need. watch their hard-earned profits go. by get a carload for the two of you. should be done in the winter, if they in a lump, thereby making a big bill ning they should do. of a better price.

cold months of the year. Make a gen- Some of the machinery needs new just what you intend to do with each them on so that the implements will a happy medium is the man who is is unsafe and should not be used. Suppose you intend to sow some alfal- the season. Many dollars are lost in working his head and planning his return. fa this next season and you are not the busy season by the lack of repairs work so that it goes off smoothly and sure just how to go to work to pre- and part of this could be saved if it brings the results and the profits. pare your seed bed and lime your was attended to at the proper time. soil, inoculate the seed, etc. The dull If you are fortunate enough to have a for time spent in the winter planning lowed to freeze, get wet or have a time of the year is the time to find workshop, the time to make eveners their next year's work. In other busiout all this information. Study up the and whiffletrees and neckyokes is be- nesses men are paid good salaries just way of handling the corn is to shell subject, talk with people who have fore you absolutely need them. Forks to oversee and plan the work, and it, tie it up in a bag and hang this up raised alfalfa, and learn where they need handles, and shovels also, so fix surely their planning must be worth in a dry, warm place where rats or have made mistakes, and profit by them up for the time when you are ac- what they are paid, and more, or they tually in want. The harness can be could not command the price which Maybe you are intending to go into overhauled and cleaned and repaired they do for it.

and will not have to be wired up part corn is laid out beside it, one ear for of the summer because you are too each square. Each ear can be numbusy to fix it.

Next Year's Seed.

shorten and the nights overlap out the "star boarders" and make ar- year if you haven't any saved from six kernels of corn from ear No. 1, in order to fill the space of time rangements to dispose of them as your own crops. And then be sure taking them from different places on made vacant by the shortness of the soon as possible. Go over the feeding and test the seed so that you will the ear, and place them on the cloth days, the farmer begins to settle back accounts and figure out whether you know it will grow at the proper time. in division No. 1. Do likewise with and prepare to rest from his long have fed too much or too little. These Poor seed is the cause of more fail- No. 2 and so on. When all of the hard summer's work. And the mer- are the things that make the farmer ures than most people think. No mat- squares are filled, carefully roll up the cury in the thermometers seems to money if they are attended to, and ter how good the soil and how well cloth and corn, trying not to displace want a rest and it, too, settles down lose him money if he neglects them. prepared, if the seed is not fertile and any of the kernels. A rubber band or nearer the bottom of the tube, as if it Figure out the cost of the fertilizer strong the crop cannot be good. Get string is placed around it tight had put in a hard season's work and which you used last year, and see if some seed that is adapted to your soil enough to hold the kernels in place. and climate so that it will grow on your land.

L. S. BRUMM.

Testing Seed Corn With the "Rag-Baby"

HE approach of cold weather, too. with its sleet and cold and wind, wide winter closes in, who can feed his make against the crop. stock, close up the barn warm and think or snore. The use of a portion enough to have made a failure on tester will mean more ensilage for his neighbor was successful with the same roughage to feed or bed his horses, the comfort of his family and himself. self whether it was the seed or the The test is simple but sure. If proper much you have made or lost during boxes of dirt are brought in to litter ing at them. the past year. You find out whether up the kitchen and cause extra work warm water are the only seed corn

They cannot help seeing the differences in yield produced means idleness for many farm- through the use of some simple tester, Not uncommon is the man, after with absolutely no extra charge to

Perry G. Holden, the world's leadsnug, and retire to the house to read, ing corn expert, once selected forty ears of seed corn, each ear exactly of this time with a "Rag-Baby" corn alike as near as he could estimate, from an Iowa farmer's supply. Kersome certain crop or field, while your cows, more corn for his swine, more nels were germinated from each ear. One ear was dead. Others were strong Try to find out just why you and an increased supply of money for in vitality and some of them were weak. The seeds from each ear were

move a table over to one ness man and he should use his either from the field just before cut- the following manner: A good, strong you intended. ting or during the work of husking, piece of sheeting, nine or ten inches I have had some experience in this The accounts should be gone over They believe in carefully drying and wide and from six to seven feet in respect. We built two large water and checked and figured up. Figure storing it so that it cannot mold or length, is marked off into 15 or 20 tanks out of cement blocks and plaswhere you have made useless expendi- freeze. It has been their experience squares by drawing lines crosswise, tered them on the inside with cement. tures, that you may do away with the that when they have depended upon Each square is then numbered from These tanks were 30 feet long, four expenses which do not bring in re-buying from a more careful neighbor, one to 15, or whatever number of di-feet wide and three feet deep. Our turns. Go over the milk records of all that can be procured is that too visions there may be. The cloth is cattle and horses drank from this the individual cows and find out the poor for his own use. Here and there then thoroughly dampened and spread from the first, and no injury to them

bered to correspond with its square by pinning small labels into the end of Look up some good seed for next the cobs. With a sharp knife remove

The bundle should then be placed in a pail of warm, but not hot, water, Thus I have tried to give a few of and allowed to soak for three or four is a great deal of satisfaction to the to make a list of the things which you the things which I think of utmost im- hours. I have had a pail full of seven portance to every farmer, and which or eight "Babies" at one time, having he can do without any great amount prepared several strips of cloth and If the crops have all been bumper Then start to get prices on them from of effort. It is the small things which thereby testing a bushel or two of we are apt to overlook that go to corn at a time. At the end of the set make up the large things. It is my time the water is drained off and the opinion that most farmers do not plan pail wrapped carefully in newspapers. enough for their own and their farm's The pail must be kept in a room best welfare. Some men work so hard where the temperature is warm all and burned up and winter is the time Or if you can not use a whole car- themselves that they do not realize of the time for if the corn is allowed that the men whom they hire are to freeze the test will not be accurate. shirking, and these are the men who After two days, more warm water is try to make up by hard work and poured on and left for 15 or 20 minmain strength the thinking and plan- utes, drained off and the pail recovered again. By the end of the seventh Planning and working go together. or eighth day the sprouts should be In this manner you can get the benefit Working without a plan is nearly as long enough for examination. Care bad a fault as planning and never must be taken during all of this time The slack time is the time to make working. Some work and never plan, that they are not allowed to get too coming season should be done in the the repairs that you have to make. while others plan but never get right cold. If one kernel out of any square down to work. These are the two ex- has not sprouted or the sprouts are eral map of the farm and figure out parts, so why not get them and put tremes, but the man who can work out weak or moldy, the corresponding ear field the next year; what crops you be ready to use when you need them. going to make a success of his work. a general thing this "Rag-Baby" test will grow in each, how you will work It takes so long to get repairs and if How often you hear it said of some- sorts out two or three ears from every certain fields, how much fertilizer you they were ordered in the winter you one, "there is a lucky man," and the dozen and prevents just that amount will use, and all of the minor details would not be inconvenienced by the people who say that do not know that of seed from being planted in carefulwhich you should carefully work out. delay as you are sure to be later in the object of their remark perhaps is ly prepared soil to produce nothing in

After the testing is complete the good ears must be carefully taken care Many men are making good returns of until spring. They must not be alstrong heat near them. A satisfactory mice cannot reach it.

Do this now. Any of these cold days are all right when the warmth of the house will feel mighty good. know that when the warm days of next spring catch you there will be no time for "Rag-Babies" or any other kind of a test. The sooner it is done the better, for it will mean a larger income and better crops for the year of 1918!

Montcalm Co. A. M. BERRIDGE.

WATER FROM NEW CEMENT CIS-TERN.

Having just built a new cement cis tern to water my stock from, I would like to know if it will hurt the cows to drink such water. Some farmers told us it was not good for cows to drink the water from fresh cement. Kent Co. H. A. K.

This is a question I never heard planted in separate rows. The ker- brought up before, and I do not becare is taken of the corn from the nels from the high-testing ear produc- lieve there is anything in it. I can time of testing up to planting time, it ed corn at the rate of 92 bushels per see no reason why the water from a can be applied just as accurately with acre. The poorest ear yielded at the new cement cistern will be in any The winter is the time to make an the temperature below zero as during rate of 24 bushels to the acre. The way harmful to the cow. I cannot beinventory and to find out just where the warm days of spring when the test showed up the good and the bad, lieve that it would. Cement is made you stand. If an inventory is taken farmer "just can't spare the time for but no man on earth could have pick- from clay and limestone or marl, and each year, then you know just how any seed testing." No troublesome ed out the poor ears by merely look- there is nothing in these products that would be harmful. Sometimes the On the first blizzardy day of this waste products from the iron furnace you are over-stocked or under-stocked, for the housewife. Just a narrow strip winter that you are driven into the is used as one of the ingredients of you are over-stocked of dider-stocked, of cloth, a pencil, pins, paper and a house, bring out a bushel or two of cement, but here, again, there is nothing that is harmful. Besides, very litof the kitchen windows where you can tle of the cement would be soluble in at the close of the busy season, so Countless farmers in Michigan real- work comfrotably and start one, or the water, and I cannot see that any why should not the farmer do like- ize the advantages of fall selection of more "Rag-Babies" to testing your harm could come. I should pay no atwise. The farmer should be a busi- seed corn and are choosing fine ears, seed corn. The test is conducted in tention to this, but water the cows as

State Potato Meeting.

tato situation of the state and the pur- tion of the crop. poses of the society. He urged that local associations be formed to work in harmony with the state association for the Friday morning session was of Saginaw, stated that the consumer ture," in which he gave many practiso that the objects of the association the report of the research committee. wanted the potato which was of a cal hints on the culture of this popuwould be more quickly accomplished. Mr. H. J. Smith, of Alpena, spoke on good size, flat and white. He said lar farm crop. Prof. Ernst A. Bessey Potato production is one of Michigan's "Varieties." He stated that each com- that the potato growers were fortu- spoke on "The Importance of Seed Pomost important agricultural indus- munity should select the commercial nate in the fact that the highest type tato Inspection," in which he brought tries, this state having been the lead- variety which was best adapted to its of potato was almost the most produc- out the relation of seed inspection to er in this crop for many years, and it local conditions. He also mentioned tive and profitable. Mr. Blandford, of the control of disease. This annual is due time that the production and that it was very necessary to have po- Newaygo county, gave a very interest- program was concluded by a roundhandling of this crop become organiz- tatoes ripe when dug, stating that the ing report on fertilizer experiments table discussion on "Marketing the ed and systematized.

The Objects of the Society.

plans the society had in mind were bushels per acre more than the Rural to be marketed, while in the fertilized of some of the potato dealers in the the standardization of varieties so New Yorker. He was not satisfied plot, 90 per cent were marketable. Mr. discussion added considerable interest. that each variety would not be known yet as to the disease resistance of this Woodman again spoke on spraying, by half a dozen or more names; also variety, and hoped in the future to get stating that no crop less than two the Potato Growers' Association was to organize the growers of each com- some data on this matter. munity so that they will decide on one or two varieties and grow them on "The Use of Fertilizers." He spoke average increase of nine years of the large number in attendance was a exclusively. Seed selection with ref- on the value of tests carried on by a spraying was \$10 per acre. He said credit to the association and made one erence to the improvement of the type large number of farmers because it that it was essential to spray the first realize that it will play an important and also to control disease, is also brought into consideration the per-time when the tops were five to six part in the development of the potato one of the prominent features of the sonal attitude of the farmer and soil inches high, and that the first three growing industry.

Wisconsin's Experience.

potato market conditions.

Possibilities of Organized Effort. •

In his usual pleasing and forceful Hon. fifth in importance of the crops grown of potato culture would find that poper acre. in the state, and that 85 per cent of tato spraying usually paid, although in the farms grew them. The crop of some seasons when the late blight Dr. Orton, potato specialist of the ed by the baiting, they may be excludforty-four million bushels in this was not very prevalent it did not pay. U. S. Department of Agriculture, gave ed by the use of coops made of laths, state was grown in thirty countries, He stated that early blight was the an illustrated talk on potato diseases. through the spaces of which the spar-

Horticultural Society annual meet-ganization was necessary to keep which was a very important subject. ing adjourned, the Michigan State these diseases in check, and also to He found that graded potatoes brought the annual banquet. Besides enjoying Potato Association went into session assist in modern marketing methods, ten to fifteen cents more in Port Hur- the feast and the witty and instructive in the same hall. Its first meeting, He found that graded potatoes on than the ungraded ones. He spoke toasts, the diners enjoyed illustrated which was held Thursday evening, brought five to ten cents above the of the work that the wide-awake St. talks by Dr. Orton and Prof. Bell. December 3, started with a good market price, which would add a mil- Clair county organization was doing, crowd and plenty of interest in the lion dollars to the value of the crop of and of the interest the growers were officers was held, and resulted as foltalks. This being the fact, is an indi- the country. He said that we, in this taking in this new work. One of the lows: A. L. Hopkins, of Bear Lake, cation that this association which is country, did not appreciate the value features of this association's work was president; C. W. Waid, East Lansing, not quite a year old, is a good healthy of the potato, stating that in Ger- the inspection of the fields and the secretary; Ernst A. Bessey, East Lanyoungster and is sure to make itself many it was used in the dry state, for spudding out of potatoes not true to sing, treasurer; F. J. Stoffard, of Elheard in the rural affairs of the state. making starch and alcohol, and as a type. In his annual address, President A. stock food, the fresh consumption in L. Hopkins, generally reviewed the po-that country being only a small por-

Variety Tests.

two years old, has been very success- seed. Mr. Cook found humus very mand was double the supply. ful in accomplishing work similar to important and commercial fertilizer as that planned by the Michigan associa- very valuable in the solution of the association, and it was found that the were just as necessary when they local associations never got down to were used as at other times. He fertilizer in gave best results.

Spraying for Blight.

Jason Woodman, of Kalama-

spraying was most essential.

gave a report on "Grading." He said spud could be affected with diseases

MMEDIATELY after the State diseases; now there are twenty. Or- that this subject touched on marketing having such high-sounding names.

The Round Table Discussion.

The round-table discussion, under board. the leadership of J. H. Skinner, of hundred bushels per acre could be a success, goes without saying. The Mr. C. B. Cook, of Allegan, reported profitably sprayed. He found that the intense interest in the program and differences. Fertilizers were general- sprays should be put on a week apart. ly used in a sort of hit and miss way, Mr. Crandall gave another short talk Prof. J. W. Milward, of Madison, and before the farmer could get full on organization, telling of the buying Wis., who is secretary of the Wiscon- value out of them he would have to and selling of good seed from Wisconsin Potato Growers' Association, told consider the type of soil, the past sin that the organization undertook. of the work of their association in treatment of the farm, seasonal varia- This seed was sold to the farmers at

Growing High-priced Potatoes.

The Friday afternoon session open-

Potato Diseases.

and one-fourth of their value was lost most destructive, but could not be This talk was very instructive and rows can pass freely, while the pig-by diseases. In 1840 there were no controlled by spraying, and that to forcibly brought to the mind of the eons will be kept out."

control late blight thoroughness in ordinary grower the seriousness of some of the new potato diseases. One Mr. L. V. Crandall, of Port Huron, can hardly realize that the common

Friday evening was given over to

Saturday morning the election of mira, and Jason Woodman, Kalamazoo, as members of the executive

After the usual business was dis-Grand Rapids, brought out some very pensed with, Prof. H. J. Eustace gave The first number on the program valuable information. Mr. Robinson, a talk on "Pointers on Potato Culripeness was worth five cents a bush- he had carried on during the past Potato Crop," which brought out many el. In variety tests he had carried summer. He had generally found fer- interesting points. It was apparent In his report Secretary C. W. Waid out, he found that the late Petoskey tilizers profitable, and in one case he that the marketing problem is the also spoke of the purposes of the so- was the best variety for his section found that potatoes in the check plot most interesting to the members of ciety, but in more detail. Among the of the state, having averaged ten had 50 per cent which were too small the association, and the participation

That this first annual meeting of

ERADICATING SPARROWS.

How can I best kill the sparrows around my premises?
Calhoun Co. F. H.

The method of eradicating sparrows that state. This association which is tion, varieties and the condition of the cost plus transportation, and the de- advised by Dr. Barrows, of the Michigan Agricultural College in his book, "Michigan Bird Life," is as follows:

"During midwinter when the spartion. They are working under more fertilizing problem. Barnyard manure ed with a talk by E. M. Pierce, of Kal- rows have congregated in the towns favorable conditions than our state would not solve the problem, as it did amazoo, on "Growing High-priced Po- and cities and when heavy snow has society, as they have an appropriation not contain all the elements for prop- tatoes." Mr. Pierce was a believer covered most of the available food, from the state, and the Horticultural er fertilization. He said in general, in cowpeas and commercial fertilizer and they are pinched more or less for Department of the Experiment Station light soils needed potash the most, for fertilizing purposes. After telling supplies, they should be baited for had already started the work which and the soils of a clayey nature were of his various methods of potato grow- several successive days to some stathey are now undertaking. In their mostly in need of phosphorus. All ing-which were all modern-Mr. ble yard or enclosed area where they work with reference to varieties, this soils but muck were in need of nitro- Pierce told of his method of market- will gather in immense numbers if association found that among 50 va- gen as well as humus. It was found ing. This consisted of selling direct not needlessly alarmed. When sevriety names there were only five va- that light soils will only hold one- to the consumer. From early in July eral hundreds have thus been lured to rieties, each variety going under sev- third of their weight of moisture, to late in October, Mr. Pierce covers feed regularly, and the amount of eral names. Rural New Yorker and while humus will hold ten times its regularly twice a week certain routes food which they will consume com-Green Mountain were considered the weight of it. Prof. Henry G. Bell, of in Kalamazoo. By selling to the con- pletely has been determined, a simibest varieties for the state. It has Chicago, also spoke on fertilizers, giv- sumer a high quality graded potato, lar amount of the same food, previousbeen Wisconsin's experience that seed ing very valuable suggestions with he has been able to keep customers ly soaked with strychnine and careinspection has been very valuable be- reference to the use of commercial for his potatoes at fancy prices. This fully dried, is fed to them at the usual cause it caused the growers to look fertilizers on which he is an authority. year he sold his winter potatoes at time. Ordinarily, the whole of this into their own conditions and be more He said that it wasn't fair to ask com- 60 cents a bushel when potatoes were poisoned grain will be eaten, and fourcareful in selecting seed. As in Mich- mercial fertilizers to take the place selling at 30 cents on the market. The fifths of the sprrrows will die within igan, the county experts and local as- of other things, and that humus, cul- extra cost of this method of market- a few moments and within a few yards sociations co-operate with the state tivation and other modern methods ing was not over five cents a bushel. of the feeding place. The remainder "How we secure a high average will flutter a little further away, but yield of potatoes," was told by Mr. within a few hours, every sparrow brass tacks until the state association spoke of the importance of the appli- Woodman when he spoke of the meth- which ate at this place is likely to was organized. The state association cation of commercial fertilizer, and ods they used on his farm in Paw die. No danger whatever is to be apalso intends to issue uniform premium said that improper application often Paw, stating that he used potatoes in prehended to cats, dogs, pigs or other lists for the fairs, and to co-operate resulted in getting poor results. In a rotation. This rotation was so ar- animals which might eat the poisoned with dealers in the improvement of most all cases he found drilling the ranged that potatoes were grown on sparrows, and if any poisoned grain the same ground only one year in ele- is left uneaten, it can readily be ven. Mr. Woodman was formerly an swept up for use at another time or advocate of formalin for soaking seed can be destroyed by burning if desirmanner, Dr. Eben Mumford, of East zoo, gave a concise but very practical potatoes, but since he has become ac- ed. There is far less cruelty in kill-Lansing, spoke of the possibilities of report on spraying. Mr. Woodman has quainted with some of the newer dis- ing sparrows in this way than by ororganized effort in Michigan. He said had considerable experience along this eases he has used corrosive subli-dinary shooting or trapping, since exthat organization is in the air, and line, and the information he gave was mate. He uses small whole potatoes periment with caged sparrows shows that in a state where there are 167,000 of great value. He said that it did not for planting, and will hereafter cut off that strychnine is very quickly effecpotato growers as there are in Mich- pay the poor grower to spray, as he the stem end of each potato in order tive and that the sparrows die from it igan, a potato growers' organization would not get enough increase in yield to control the wilt and other diseases. with practically no pain at all. It is ought to become powerful and bene- to pay for the extra trouble, but one He uses about 27 bushels of seed per important that the poisoning should ficial. He said that potatoes were who followed all the modern methods acre, and gets yields of 380 bushels be done only during the winter season when all native birds are absent, and in case poultry or pigeons are attract-

Introduction to a Study of Apple Vareties will pay best in the long run. An approper drainage. But this should not ple, such as the Spy, may take from be sufficient for the commercial or-

The Second of the Special series of articles by John W. Fisher, relating his findings in making a survey of Michigan Apple Industry.

fronted with a problem when he sideration in this matter. approaches the task of selecting nurseries would try to aid the fruit a carload. grower in the selection of varieties, by confining the descriptions to accurate data the service they would ren- cated near a large city, such as Deder the fruit industry would be of un- troit, other considerations will enter told value.

ance, but again he is more or less con- of varieties which will mature in sucfused, because the average bulletin, cession, thus affording a continuous dealing with the selection of varie- supply for the pickers and wagons. ties, will usually list anywhere from Secondly, an assorted load must be ing. The orchardist needs only five this direct marketing, because the or ten kinds if he is intending to plant grocers or housewives will probably a commercial orchard, and again he is desire both cooking and dessert apperplexed as to which to choose, for ples. Thirdly, a succession of varie- rather than appearance. in all probability the greater proporties greatly simplifies the labor probtion of those named are well suited to lem, for the work of picking and packhis conditions.

Each Grower Has His Favorite Variety.

most interested. One of the facts ly overlooked by planters which impressed itself upon him was the frequency with which the discushorticulturist of the Michigan Agricul- duce the greatest net returns. the Kiefer.

Things to Consider in Selecting Varieties.

attention to those best suit- ple of the south." ed to his needs as viewed from the It also must be remembered that an natural public parks. lists.

In the next few articles the choice of varieties as viewed from both an-

THE prospective orchardist is confactors which must be taken into con-

First comes the question as to how the varieties of apples for his orchard. many varieties should be chosen. He burns the midnight oil poring ov- Probably the prime determinant is the er nursery catalogs, only to retire location of the proposed orchard. If more bewildered than when he start- it is intended as a commercial propocd, for hundreds of varieties are list- sition and the fruit must be barrelled cd and pictured, with each and every and shipped, it is wise to confine the one described in glowing terms. The plantings to some five or ten standard search is further complicated by the varieties, so as to have a sufficient loose use of synonyms in the catalogs, supply to enable the shipment of for the same variety may appear un- straight cars of one variety, facilider several different names in the var- tate the grading and sizing operations, ious pamphlets. If all nurseries would and act as a magnet for buyers. No adopt the nomenclature of varieties large buyer can afford to trifle with as approved by the American Pomo- an orchard composed of thirty or logical Society, the task would be forty varieties, with not a sufficient much simplified. And finally, if the amount of any one kind to make up

Considering the Local Market.

However, if the orchard is to be loin. If the fruit is to be hauled direct-The grower then turns to the ex- ly to the city by motor truck or wagperiment station bulletins for guid- on, it will be better to have a number twenty to thirty as suitable for plant- carried to secure the best results in ing is not concentrated in a few days but is spread over the entire season, and fewer men are given more contin-As a last resort he asks his neigh- uous labor. This is one point which bors for their opinions and advice. must be considered in the limiting of But here again he is apt to be misin- the number of varieties to be planted favorite variety, although his choice fruit grower situated at some distance may be caused by abnormal condi- from the market is even more troution. In preparing the questions for nearer town. The problem may be this survey the writer reviewed the solved to a certain extent by the and of such a texture as to allow ment in favor of these varieties. reports of the Michigan State Horti- planting of other fruits which will occultural Society for twenty years, in cupy the help during the dull periods. an endeavor to learn the problems in This is nevertheless an all-important which the Michigan growers were point which is too many times entire-

The Market Value of Varieties.

The writer does not wish to unduly sions turned to the matter of varie- emphasize market considerations in ties, and how many men vigorously the choice of varieties, to the neglect defended unheard-of varieties. This of other factors, for it is not always point is well brought out by a state- true that the apple which brings the ment made by Mr. O. K. White, field highest price on the market will protural College, to the effect that a man cost of production varies greatly for has written to him year after year to the different apples and this must be find out where he can secure three taken into account. This is one of the carloads of Kiefer pears, as he has excuses for the continued existence of found a special market for that vari- the Ben Davis, and, as one man re-This man can never be convinc- cently remarked, "If you are shipping ed that the Kiefer is not generally to the city where the people don't considered to be a good market pear; know the Ben Davis from the Spy, it but the mere fact that he has found a may pay to raise Ben Davis." Howspecial market for this variety does ever, in this particular case, this is not mean that a sufficient demand ex- doubtful advice, because of the ultiists to warrant the general planting of mate injury to the reputation of the grower with the trade. But as Mr. T. A. Farrand, of Eaton Rapids, remarked, "Don't plant any more Ben Davis The prospective orchardist is now in Michigan; but if you have Ben at the end of his resources and is still Davis trees in good condition on your unable to choose from the many va- farm, do not cut them down. The Ben rieties obtainable. But he has con- Davis will always be the market ap-

made.

Quality Pays.

The first impulse is to select early

ten to fifteen years to come into bear- chardist. He wants to know what vaing, but when it does begin to bear, riety will do best on his particular the increased returns which the high type of soil, for he knows that the facquality fruit will bring may more than tors of ripening, color, keeping qualirepay all the years of non-production ties, etc., are all influenced by the and a handsome interest on the ac- soil conditions. cumulated investment. The writer has in this series in the near future.

color, which at the present time, is un-Roxbury). sideration. through the ly undergoing the transformation into entire series. a connoiseur. When the transforma- To Consider the Standard Varieties in tion is completed, color will not be accepted as a substitute for quality, for

Considering Soil Requirements of Varieties.

The adaptation of the orchard land ples are particular in their soil reformed, for every fruit grower has his in a commercial proposition, for the present time merely accentuates the er believes that the above named aptions which are peculiar to his loca- bled by labor problems than the man apple tree will grow upon almost any series carefully, cannot fail to be imsoil supplied with sufficient plant food pressed by the overwhelming senti-

will pay best in the long run. An ap- proper drainage. But this should not

In conclusion the writer will say long held rather pronounced views on that in this survey the attempt has this matter, and so when this survey been made, not to name all the good was made, availed himself of the op-varieties, but to choose from five to portunity to ascertain the feeling of ten varieties which are known to us the market men in regard to the in- to be good, and which the commercial vestment features of a Northern Spy planter, under average orchard condiorchard. Their answers will form the tions, will not make any mistake in basis of an article which will appear planting. There are several varieties which have been marked leaders in Another problem which confronts both the answers of the growers and the planter is the relative value of the commission men, namely: Northcolor and quality in a market apple. ern Spy, Baldwin, Rhode Island Green-This question has been thoroughly ing, Oldenburg (commonly called the treated in the survey and the mate- Duchess), Red Canada (or Steele rial is too extensive to be treated in Red), and Tompkins King; with the this article. It may be stated briefly, possible addition of the four varieties however, that the question of quality Wealthy, Maiden Blush, Yellow Transmust not be entirely subordinate to parent and the Russets (Golden and The naming of varieties questionably the prime market con- as here employed may arouse dissen-For with the increased sions, especially the use of the term knowledge brought to the consumer Red Canada, but the writer has used extensive advertising the official nomenclature as approved which the apple is receiving at the by the American Pomological Society, present time, the consumer is gradual- and will use these names through the

The attempt will be made throughthe consumer of fancy apples will out the discussion to consider these know varieties, and will buy quality varieties more in detail than any others, both from the growing and marketing standpoint, inasmuch as these varieties seem to be so much in favor with both growers and market men. is a prime factor, for varieties of ap- The attempt will be made in this series to determine the varieties which quirements. This subject has not been no grower, under normal conditions, given the attention which it deserves, can make a mistake in planting in a and the information available at the large commercial orchard. The writnecessity of future work along this ples form such a list, and anyone who line by the experiment stations. An reads the following articles in this

Horticultural Society Meeting.

(Continued from last week). opened by Mrs. Henry Hulst, ex-pres- trol." try. She stated that there were mil- account of the information gained. lions of acres in the state of no value except for forestry purposes, and she

of varieties as determined by market the market may be a shy producer, of horticulture at M. A. C., showed should feel it his duty to become a likes and dislikes has been a practi- may be exceptionally susceptible to some very interesting slides of Michi- member. There were various changes cally unexplored field until recent injuries, diseases, pests or frosts, or gan fruit scenes; these he accompan- made in the constitution and by-laws years, but should be given just as may have poor keeping qualities. All ied by practical hints and suggestions, to suit present conditions. These laws much weight as growing considera- these points must be taken into con- Prof. Eustace realizes the value of were written years ago and some feations, and may aid in narrowing the sideration before a final choice is conveying information by the picture tures greatly needed the changes

be devoted to a general discussion of of a permanent investment, as to what the first prize going to D. A. Stroh, of tive committee for three years, and C.

Washington, D. C., who talked on The Tuesday evening session was "Two Common Scales and their Con-T. W. Cochrane, of Elk Lake, ident of the Michigan Teachers' Asso- Pa., who had for a subject, "Michiciation. She spoke on "Community gan's Need for an Apple Packing Planting and Parks," and made a plea Law," won the second premium, and for country-side planting. She said Kris P. Bemis, of East Lansing, who that it was a mistake to cut all the spoke on "Raising Bartlett Pears in brush from the roadside and that our the Pacific Northwest," won the third rural districts were fast becoming un- premium. These students' contests are attractive, due to this practice. While annual features of the State Horticulpresident of the Teachers' Association tural Society's program, and have be-Mrs. Hulst carried on a tree planting come one of the most valuable feacampaign, which resulted in ten times tures of it, because of the valuable inmore trees being planted last year formation given out in the talks. It than ever before. She said that the is a feature which is mutually benecities were giving more attention to ficial to both the society and the stuthis matter, and as a result were be-dents, and the society always feels coming more beautiful than the coun- repaid for the premiums it offers, on

The Business Meeting.

The annual business meeting folhoped that they would be developed lowed the contest. The secretary and in that way and that everything treasurer's report showed that the sowould be done to preserve the timber ciety is in very good condition, but standing at present. Much of this due to the various changes in its manwaste land which has been turned agement, it needs the hearty support back to the state should be made into of every fruit grower in the state. The society is doing a worthy work, growing standpoint alone. The choice apple which brings a high price on H. J. Eustace, the popular professor and every fruit grower in the state method, which often gives a more last- made. The election of officers resulting impression than talking would. ed as follows: C. A. Pratt, Benton The students' speaking contest, Harbor, president; R. A. Smythe, also gles will be discussed, based upon the bearing varieties, under the impres- which was held Wednesday morning, of Benton Harbor, secretary; Henry answers obtained from both market sion that just so many years of pro- was as usual, very interesting and Smith, Grand Rapids, treasurer; Luthmen and the growers in this survey, duction will be gained. But an or- chuck full of information. Twelve er Hall, Ionia, and Thomas Gunson, but the remainder of this article will chard should be looked at in the light students participated in this contest, East Lansing, members of the execuA. Bingham, Birmingham, as a mem-the investment in household conventical suggestions. He suggested that ber of the committee to fill the va- iences was profitable. cancy caused by the election of Mr. when he was elected to office again. got along very well.

The Wednesday afternoon session factory. His storage house is on the youth. railroad, which makes it convenient for him to ship and also carry on

New Horticultural Experiments.

"New Points in Horticulture," was given in a very interesting manner by Prof. H. J. Eustace. He spoke of the differences between trees of the same variety under the same conditions, and told of the results of an investigation along this line at the L. E. Hall orchard at Ionia. Prof. Eustace's general conclusion was that the cions, used in grafting transmitted the peculiarities of the tree from which they were taken. He also spoke of a new method of fertilizing and invigorating fruit trees. This method was the spraying of nitrate of soda on the foliage. It was found that this had a very invigorating effect on the foliage and if sprayed before the blossom buds opened, would cause earlier blossoming and general invigoration of the fruit buds. He also spoke of the dust method of spraying as compared with the liquid method. Generally this method has not been successful or practical, but in New York an application of four parts of sulphur and one part of arsenate of lead proved effective but was too expensive for practical use. For greenhouse purposes, however, it was of some value.

was surrounded by swamps, which he anteeing the fruit. thought was beneficial in the matter of frost protection. He urged that information on some of the new in- necessary. growers do not crowd their trees, stat- sects troubling the fruit; among them ing that he set his Elbertas 25 feet were the red bug and the grape leaf apart. He did not believe in inter- hopper. The red bug made its applanting, and only cropped his newly pearance last spring, and in some set orchard one or two years. While places caused considerable damage. It the immediate returns from the or- works by puncturing the leaf or fruit, the New England, Middle Atlantic and chard under this method were not as great, he was sure that the additional profits in the future would make this method advisable. He advocated vignorous and early growth, and said that no matter how large the growth was, if it was stopped early enough in the sage. Works by puncturing the leaf or fruit, and sucking the sap. It causes very knobby irregular fruit. It can be contained their shagbark farms, black walnut farms, and filbert farms. In more favorred locations, there may also be northern pecan and hardy English show pink. The only method of contained the grape leaf hopper was to fit was stopped early enough in the burn all the rubbish around the vineseason to harden up, it would not be vard. Mr. Pettit found the scale paring the leaf or fruit, and sucking the sap. It causes very their shagbark farms, black walnut farms, and filbert farms. In more favorred locations, there may also be northern pecan and hardy English walnut farms. We now know how to graft and bud all these trees and it merely needs the finding of the best parent trees. The pecans are already in hand, and there are some very their shagbark farms, black walnut farms, black walnut farms, black walnut farms, and filbert farms. In more favorred locations, there may also be northern pecan and hardy English walnut farms. We now know how to graft and bud all these trees and it merely needs the finding of the best parent trees. The pecans are already in hand, and there are some very chard under this method were not as and sucking the sap. It causes very

Pratt to the presidency. The fine con- subject on which Mrs. C. B. Cook, of as there was considerable variation in dition of the records of the society, Owosso, spoke. Mrs. Cook has had the mixture. He found powdered arand the business-like management the considerable experience in the active senate of lead as efficient as the paste, society has received in the past year management of farm work, and said and stated that it required only half is a great credit to Secretary Smythe, that with the assistance of a little the amount. For the control of the and all members were greatly pleased good natured jollying of the men, she cherry fruit fly and apple maggot, the

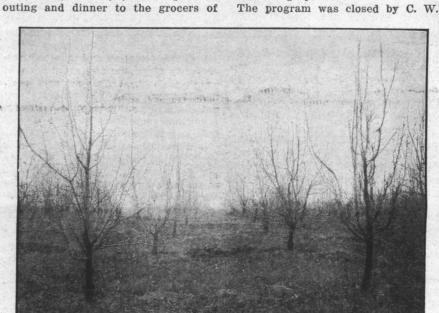
of the annual meeting of the State the festive occasion of the annual very effective in attracting the in-Horticultural Society was opened meeting. After satisfying the inner sects. He found that it was not necby a talk by Mr. Allis on "The man, the banqueters enjoyed mental essary to spray all of the trees in the Value of Cold Storage on the Farm." food and entertainment through the orchard, as the insects would be at-Mr. Allis has a cold storage house numerous toasts given. The general tracted to those sprayed with this very similar to those of the commer- trend of the toasts was historical, and mixture. He urged strongly the propcial kind, which has a capacity of the newer members of the society er control of the blight, and said that 15,000 barrels; the system of storage gained interesting information with in spring when it was usually the he started with was the calcium chlor- reference to some of the pioneers in worst, it was often necessary to cut it ide method, but he found this imprac- society work. The Kalamazoo Normal out two or three times a week. tical for a storage house of the ca- School Glee Club added greatly to the Mr. Hale Tennant, secretary of the pacity of his, as it took too much la- entertainment with selections during Grape Growers' Association, spoke on bor to crush and prepare the ice. He and after the banquet. The college "The Marketing of Grapes." He said is now using the ammonia system not yells of the Normal School and M. A that the Michigan grape growers were under pressure and finds it very satis. C. made the prevailing spirit one of sadly in need of co-operation, and

Farnsworth on Marketing.

satisfactory. Every year he gave an alized the grape market.

the fruit grower test every barrel of "How I Run the Farm," was the lime-sulphur and dilute accordingly, addition of one-half gallon of molasses The annual banquet was, as usual, or glucose to a barrel of spray was

that while they grew one-half of the country's crop, they got only one-third Mr. Farnsworth opened the Thurs- of its total value on account of loose commercial storage business. He has day morning session with a very in- marketing methods. While 75 per cent found that storage pays, this year, teresting talk on "Marketing." He of the grapes of the country were the stored fruit bringing 75 cents a told of their method of selling direct sold through organizations, the rebarrel over the price offered by the to the retailer, and of the various maining 25 per cent controlled the buyers at the beginning of harvesting. Ways he had in keeping the relations market by setting prices. The shoebetween himself and his customers string broker was the one who demor-



A Sod Mulch Pear Orchard in Van Buren County which has Been Producing Profitable Results.

Toledo, which is his market, in order Waid with a talk on "Pickles and that they might become better ac- Melons." He urged the rotation of Mr. W. W. Farnsworth, the promi-quainted with him, and also see grow- crops in the control of melon diseases, nent Ohio fruit grower, gave a very ing the fruit they were selling. Mr. and the use of a legume in the rotainstructive talk on peach growing. Farnsworth grows a succession of va-tion for fertilizing purposes. Manure The conditions were different in Ohio rieties, as he finds it necessary to keep spread broadcast with well-rotted mafrom those in Michigan. He said that kind of trade. He packed his nure in the hills, gave the best rethat light soil was not as necessary fruit honestly in attractive packages, sults as a fertilizer. As the Michigan for peach growing here. His orchard and in each package put a slip guar- Farmer intends to publish an article on the above subject by Mr. Waid, fur-Prof. R. H. Pettit gave interesting ther reference to his talk will not be

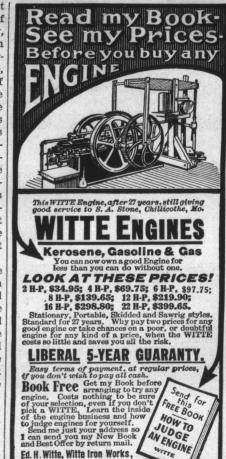
A NORTHERN NUT FARM.

The south has its pecan farms; California has its walnut farms, and if it was stopped early enough in the season to harden up, it would not be subject to winter-killing. He advocated low headed trees and the open head method of pruning. Peach spraying, he said, was still experimental, the safest and most efficient spray to use being the self-boiled lime-sulphur.

The Woman's Session.

At the woman's session, which was held immediately after the Wedneshed way ferron session, Mrs. Ralph Balard, of Niles, spoke on "A Woman's lard, of Niles, spoke on "A Woman's lard, of Niles, spoke on "A Woman's gallon of molasses or glucose.

of all methods which would make the household work easier, and said that "Spraying," which was full of prac-





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Training the Co. By PROF. JESSEE BEERY, OF OHIO.

duties to be performed. It is too of- most. ten a rainy day job, left for the boys Attention depends upon interest and of communication, should always be the trial period the first horse weighto do, or turned over to incompetent a colt has but very few points of inhired help.

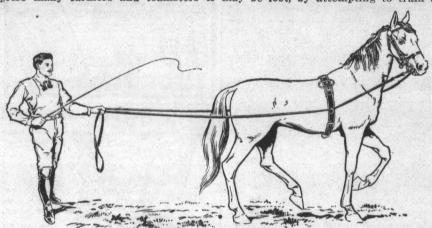
There is scarcely a day passes with- that of the colt. out a horse being used in some way. In attempting to train a colt when by some habit it may have.

that buggy or piece of machinery de- foundation of a bad habit.

farm, does not occupy a very length of time; that of a mature colt dition in which he is teachable. prominent place in the list of for not longer than a half hour at

Working or driving, a horse may make too young, one is likely to take up too things very unpleasant for his owner, much time, lose its attention, and alday after day, year in and year out, low it to pick up habits that are undesirable. If a lesson is continued, after convey ideas to a horse is almost un- thought of its feeding value. He seem-When one hitches a horse to a new a colt's attention is lost, it becomes limited. It can be sharp, rasping and ed very enthusiastic in his reply, for buggy, or to a piece of new machin- an annoyance to the colt and may irritating or it can be calm and sooth- he had been feeding it for some time. ery, the cost of either of which may cause it to retaliate by kicking or bit- ing. One can almost tell by the driv- He asserted that molasses was the often exceed \$100, the risk of losing ing or doing something that lays the er's voice what kind of a team he has. cheapest feed to keep his horses fat

pends, to a large extent, upon the re- Taking everything into considera- enough around their colts and horses. ever used. His method was to pour liability of the horse. It would sur- tion, there is little gained, and much Many a misunderstanding could be about one pint of clear molasses upon prise many farmers and teamsters if may be lost, by attempting to train a



The Colt Ready for His Lesson.

they kept an accurate account of the colt before it shows the form and amount spent every year for repairs qualities of a mature horse. or breaks caused by horses.

The Cause of Most Bad Habits.

the wrong kind of training.

Since the unpleasantness of many or develop other habits. years' work, the possible loss of many responsible to look after it than a early-broke colt usually indulges in. reckless bunch of boys, or an indifferent farm hand.

to begin the work. colt, beginning the training when the often all three are used. colt is too young, when it can be more

that the lesson will not be repeated by the word alone. just exactly as first given and more

brain of the colt, from 18 months to on the side of the right hip follows and oats, the animals were given kept in a warm place or the molasses three years old, stays for the remain- almost at the same moment. der of its life.

Undivided Attention Necessary.

A colt, under 18 months, cannot fix its without resistance. About the second had gained 40 pounds in weight and Montcalm Co. A. M. BERRIDGE.

Let Your Colts Run Loose.

There may be occasions where it It is not an extravagant statement will be necessary to train a colt to do to say that nine-tenths of all the acci- a few things at an early age, for indents and trouble caused by bad stance, to stand tied or to lead with a horses, can be traced to improper colt strap. If it is absolutely necessary, of training. Most of the bad habits, that course, there is nothing else to do. develop later in a horse, are the result For myself, I would prefer that the of either the lack of colt training, or colt run loose rather than get the habit of chewing straps, slipping halters

When he is old enough for actual dollars' worth of machinery and even use, 15 minutes is long enough to the safety of human lives, depends so teach him to stand tied so that never feed with shredded or chopped corn ses will lead to barrenness. Our catlargely upon proper colt training, it after will he pull on a strap. Another ought to have a more important place 30 minutes, or less, will teach him to in the order of work than a rainy day lead obediently without the prancing, job. There ought to be someone more crowding and other pranks that the

How to Reach a Colt's Brain.

The first thing necessary in colt The Proper Age to Begin Training. training is to establish a line, or lines, There are many things to consider, of communication between man's when one speaks of training a colt, brain and that of the colt in order and I consider nothing of greater im- that there may be a mutual underportance than the proper age at which standing. There are three lines of communication in common use: the It seems foolish to me to tinker bit, the whip and the voice. Somealong two or three years in training a times only one, sometimes two, and

A "green" colt doesn't know the easily and better taught in a few meaning of the words, "get up." When hours after the colt reaches the cor- a colt is struck directly on the back of his hips he naturally moves for fodder, oat and wheat straw, with the were fed the molasses more as an The tissue of a young colt's brain is ward. The stroke of the whip is usu- some grain, will winter the horses in appetizer with their straw than as a too soft to retain a lesson any length ally preceded with the words "get up." satisfactory condition. Buy a barrel separate feed.

Teaching a Colt to Turn.

that several different people will have and often causes a tough mouth by ered. Some time ago an experiment or with the straw. ways results in confusion to the colt. veyed if, when the first pull on the about 900 and 940 pounds respective thoroughly together.

to step over with the hind legs and ter and poured evenly over five that anyone can give it a trial and I No effective training can be done the slight pull on the lines turns the pounds of cut hay. The results were am confident that it will become a valwithout the colt's undivided attention. head a little and you have him turned surprising. In two weeks the first uable help in their winter feeding.

or third time the colt, feeling the the other added 45 pounds of good sure. He understands you and is in the extent of 102 pounds. OLT training, on the average attention to any one thing for any a good humor—the only possible con-

Proper Use of the Whip.

used to convey distinct ideas. It ed 1,075 pounds and the other 1,086 terest. If a man wishes to keep the should never be simply an object of pounds. They were no longer weak Colt training is of too much import- attention of a colt and get results he, fear. Whenever you see a horse dodge or ill, and were immediately placed ance to allow it to take a subordinate too, must put his attention to the and try to get away, when a whip is and employed profitably by a business place in the work about the farm, work and keep his mind working with brought toward him, rest assured firm. that the whip, as a medium of communication of ideas, has very limited our own stock, over a year ago, I askvalue to that horse.

The Power of the Human Voice.

avoided by its proper use. Sometimes the oats at each feed, after the roughit must be soothing, sometimes a tone age had been eaten. The horses relof authority must be used, and always ished it very much. Molasses seems it must be under control. When the to supply just the element of nourishvoice is used right all the ideas, con- ment that the horse needs, especially veyed by the whip or bit, can be expressed by it alone.

With these three mediums, the bit, the whip and voice, it is not a difficult thing to convey man's wishes to the brain of the colt.

I cannot emphasize too much the training. If you train your colt right, not stand after several years' driving. It means something to have a colt that is trustworthy.

to be published in consecutive issues of the Michigan Farmer. Another article by the same author on another phase of colt training will appear in a future issue.

A CHEAP WINTER FEED.

it necessary to winter their horses seen in their good condition. upon some other roughage than hay, straw was made quite palatable for In many parts of the state there has the horses would eat it readily and in been a shortage of hay for two or large quantities. three years and the present high prices place it out of the question as molasses to cows and heifers not to

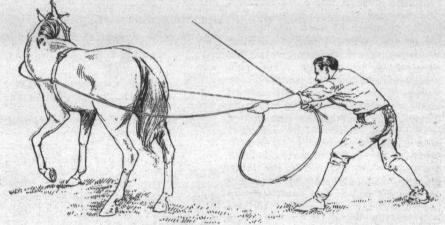
pressure of the bit, will anticipate the hard flesh. After four weeks on this tap of the whip and step around with- diet they were led onto the scales a out being touched. Now he has an second time. The first had added 95 idea of the meaning of the bit pres- pounds and the mate had improved to

During the experiment both horses shed their hair but after six weeks on this feed their new coats were grossy The whip, being one of the means and healthy looking. At the end of

Before purchasing any molasses for ed one of the liverymen in a neighboring city if he had ever fed molas-The power of the human voice to ses to his horses and what he Most people do not use their voices and in good trim of any that he had when the other feed is not of the best. It helps to keep the appetite from lagging and places the body in shape to enjoy the best of health.

During all of last winter we used the regular stock molasses upon the roughage fed to both cows and horses. necessity of proper and thorough colt It was very satisfactory and we consider it an economical feed. We shall it will stand tests that others would use it in the same way again this The horses, after the steady work had been completed, received each day one feed each of sorghum, shredded corn-stalks and oat straw, with a little corn for grain. We fed the molasses only once each day, at noon, when it was sprinkled upon the straw. Two quarts, dissolved in about six quarts of luke-warm water is all that the seven horses got each day, Many farmers in Michigan will find but the effects of it could readily be

Care must be used when feeding a feed for idle horses. Many cannot give them too much, as there is a beeven supply their cows with it. Stock- lief, founded no doubt, on the truth, men who raise sorghum find that this that in time the free feeding of molas-



Teaching the Turn to the Right.

of time and, therefore, the lesson must The colt soon associates these words of cheap molasses. It will furnish Farmers who have no hay to feed be repeated. The probabilities are with the stroke of the whip and obeys more variety, improves the palatabil- will surely find this a profitable supity of the coarse feed, helps to keep plement to their ration. It can be fed the stock in better condition and is to advantage up to two quarts apiece or less confusion results. It may be It is easy to arouse stubbornness cheap when the amount fed is consid- each day to horses, preferably on oats a hand in the training, when it ex-pulling too hard in teaching a colt to was conducted with two utterly worn-quantities it would be a good plan to tends over so much time, and this alturn. The idea is more easily conout and poor horses. They weighed chop the straw up and mix the two During cold One good impression, fixed upon the right line is made, a tap of the whip ly. In place of the usual ration of hay weather the molasses barrel must be three times each a day a quart of mo- dissolved in hot water for it will be-The tap of the whip causes the colt lasses mixed with three quarts of wa- come very thick. It is so inexpensive

in proportion.

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PROFIT IN WINTER PIGS.

care for a brood sow a whole year for this season. one litter of pigs? It has been our experience that the brood sow must be run to her full capacity, like a piece of machinery, in order to be profitable. If two litters are raised each year, one of them must be grown when there is little if any green food, and when the general conditions are such that the pigs must be handled with some degree of skill in order to get any profit from them.

How do hogs do on rape, alfalfa and sorghum, say equal area of each? Providing the season is favorable for all these crops could not five acres of each of these crops grow and feed 150 hogs? That is, 15 acres in all.

Monroe Co.

H. R. get any profit from them.

The fall pig has some decided adexercise so necessary to the well-be- cheap method of harvesting same.

time when the farmer's pocketbook is bran and corn meal mixed equal parts quite empty, there being little if any- to give the cow a total grain ration of Can a farmer afford to feed and thing that he can turn into cash at one pound of grain to three or four

> Illinois. A. B.

FEEDERS' PROBLEMS.

Forage Crops for Hogs.

Of the crops mentioned, alfalfa is vantages over that farrowed in the undoubtedly the best forage crop for spring. If the sow is bred in May, hogs, with rape a fairly close second. which is perhaps as good a time as In order to secure the best results any, she can be put on pasture during with the use of these forage crops. the entire period of gestation. An however, a moderate grain ration must abundance of grass and other succu- be fed in connection with them. Sorg- 230 as effective December 7, which lent food that is both nourishing and hum would not, in the writer's opincooling to the system of the dam is ion, be as profitable to grow for hogs strictions affeting the following just what is needed for the proper de- as corn which could be hogged down areas: All counties in Michigan, exvelopment of the embryo hog, and in in the fall when the hogs were ready cepting Montcalm, Ottawa, Ionia, Clinthe pasture there is no lack of that to finish for market, thus making a

For these reasons, fall litters are al- er forage crop is needed during the Buren, Kalamazoo, Calhoun, Jackson, most invariably more even, stronger summer, but it should not be so heav- Washtenaw, and better developed in every way, ily stocked that it will not make a fair wee, Hillsdale, Branch, St. Joseph, than those farrowed in the spring. Ob- growth to be cut for hay. Then the Cass and Berrien. Also those portions serving breeders cannot fail to notice hogs should be taken out and turned of the New York Central Stock Yards, in again when the alfalfa has made a East Buffalo, New York, and Belt When the pigs are farrowed in Aug- good start. By dividing a field, the Road Stock Yards, Indianapolis, Indi-

For the fattening cattle you are safe to feed more cottonseed meal. In fact, for cattle, feed cottonseed meal alone for the grain ration if you wish, and it is undoubtedly the cheapest source of protein you can purchase. Begin with two pounds of cottonseed meal and increase to four to six pounds. This, with all the roughage they want, should make them thrive. QUARANTINE MODIFICATIONS.

pounds of milk produced. The cow

giving rich milk requires more food

The Secretary of Agriculture has issued amendment six to B. A. I., order modifies foot-and-mouth quarantine reton, Shiawassee, Genesee, Lapeer, St. Clair, Macomb, Oakland, Livingston, ing of both during this critical period. In pasturing hogs on alfalfa, no oth- Ingham, Eaton, Barry, Allegan, Van Wayne, Monroe, Lenaana, specially cleaned, disinfected and reserved for live stock from outside of the quarantined area.

This amendment permits the interstate movement of live stock into territory above described and shipments therefrom for immediate slaughter to places where federal meat inspection is maintained, also removes the restrictions from shipments of dressed carasses, hides, hay and straw from the territory above described.

The amendment further provides for the inter-state shipment of live stock on Bureau Inspetion and certification (said certificate must be attached to way bill) for immediate slaughter to places where federal inspection is maintained, from the counties of Montcalm, Ottawa, Ionia, Clinton, Shiawassee, Genesee, Lapeer, St. Clair, Macomb, Oakland, Livingston, Ingham, Eaton, Barry, Allegan, Van Buren, Kalamazoo, Calhoun, Jackson, Washtenaw. Wayne, Monroe, Lenawee, Hillsdale, Branch, St. Joseph, Cass and Berrien.

The State Live Stock Sanitary Commission also permits the movement of live stock for immediate slaughter to points within the state where federal inspection is maintained, from the following named townships in the follow-Township of Day, Montcalm county; Wayne county; townships of Summerroe county; townships of Deerfield, Blissfield, Palmyra, Ogden and Riga, cy, Bronson and Butler, Branch counne restrictions as above enumerated

hydrates or heat and energy nutrients be cleaned and disinfected before Winter pigs are usually ready for in excess of the protein or flesh build- again being loaded or sent out, and market in March or April, when they ing nutrients. Therefore you should all cars received loaded with stock The market is seldom if ever over- foodstuffs that have a narrow nutri- less they already bear evidence of therefore better than in the fall when tein in excess of the carbohydrates, since November 5, 1914.—Michigan



Ira Ward, Howell, Mich., writes: "I used Save-The-Horse on a Bone Spavin; previously doctored for years without benefit. She is working hard. Thanks for advice and Save-The-Horse.

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to death by cold rains or snow. The two lots. sows are quite certain to do well, even ous and thrifty.

pigs is after they have been weaned. However, if the hog-house is warm and dry, no fears need necessarily be entertained. A mash made of bran or middlings, or both, makes as good feed at this time as any. At this season there is plenty of leisure time so that the best possible treatment can be the best possible treatment can given. Of course, as the severe weath- The foodstuffs in the roughage part Stock cars going to butchers and er advances, they should have food to of your ration all have a wide nutri- packers, loaded with stock from townkeep up the animal heat and corn is tive ratio, that is, they contain carbo- ships herein held in quarantine, must the best for this.

should weigh from 175 to 200 pounds. provide for this by using concentrated must be cleaned and disinfected unstocked at this time, and the price is tive ratio, that is, those that have pro- having been cleaned and disinfected the spring pigs are sold. Our experi- like cottonseed meal, wheat bran, oil Live Stock Sanitary Commission. ence has been that the difference in meal, gluten feed, etc. I would sugprice is often sufficient to more than gest for a grain ration, cottonseed price is often sufficient to more than gest for a grain ration, cottonseed balance the difference in cost of grow-meal, wheat bran and corn meal. For ing. Another point that is very valu-the cows I would feed two pounds of tiller of the soil can get along without able is that the money comes at a cottonseed meal per day and enough it."—Arthur Hamlin, Elm Hall, Mich. mention The Michigan Farmer.

ust or September, there is no chilling hogs can be alternated between the

It would be impractical to grow if they are neglected by their owners, enough forage on 15 acres to feed 150 ing counties now under quarantine: which is very often the case on ac- hogs. It is far better to under-stock count of corn-cutting or seeding of the rather than to over-stock the forage townships of Mt. Morris and Argenwheat. During the suckling period crop with hogs. The average number tine, Genesee county; townships of Althere is generally plenty of young fall- of hogs which can be profitably pas- mont and Bruce, Lapeer county; towngrown grass, waste vegetables and tured on an acre of different crops in ships of Van Buren and Sumpter, other succulent food, which promote experiment station trials has been an ample milk flow, and the shoats found to vary from 12 to 30, according field, London and Whitford, in Mongo into winter quarters strong, vigor- to the crop used and the age of the pigs.

The most critical time for winter A Grain Ration for Cows and Fatten. Lenawee county; townships of Quining Cattle.

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Feeding Molasses-

Stop that cream leak A Young Calf and its Care.

When we were boys, we were not as in a little more. careful about the way in which we began an important piece of work as What will it cost? Well let us see

dairying was never so great as at the into the ration of a well-bred calf. than one who reads this, is looking as that secreted in the milk. anxiously this fall.

young calves are not properly cared care of. for, our success will be limited, to say

from the day she is dropped until the the calf. end of her life. The calf from a The grain should all be fed dry. The only chance of proving its right to and the better will be the digestion of live in this progressive age, but sure- the young animal. ly the up-to-date breeder will have much stronger reasons for giving to Get the calves to eating hay just as profitable animals later on.

that "Any cow will give milk" and in feeding. ticular breed he has chosen.

breeds designed for beef purposes, but these. we do desire large and healthy anikeeping.

Keep the Calves Growing.

these small cows may not pay a proffine large specimens of their breed.

courage such a practice at the outset. However, the calf should be given ally longer.

the calf onto skim-milk by the time it winter I shall give the calves two

OST of us have to live some pounds of whole milk each day until time before we can appreciate they are six weeks old. This is Jerthe worth of "a good start." sey milk; were it thinner, I should put sure to put the calves out of condi-

we learned to be later in life. We -two pounds of milk each day for 30 have all heard that "a thing well be-days longer than I have been in the gun is half done," but I fear that few habit of feeding it, will equal 60 lbs. of us learn, even in later life, to right--probably three pounds of butterly value the initial steps in any un- fat. This will be worth a little more

now who milk cows, who are not anx- whole milk, and there is nothing like every good dairyman is in the calves thin milk, as upon that which is much velop in the best sense of the word. for which he is breeding to the best richer, but nature demands some fat sires obtainable, and for which more for the calf, and there is none so good

The Foundation of a Good Herd. too much milk after it has passed of breeding, are still losing out, be-We may choose good cows for the through the separator. We are apt to cause they are not giving the young mothers of our future herd, we may reason that it is cheap, and so give animals proper care, and I am taking breed them to great sires, but if the the calves more than they can take my full share of the advice contained

Eight or ten pounds per day is sufficient for a calf four weeks old, and Every cow is a product of inher-double that amount will do nicely for itance and environment. The better a three months old calf. There is a she is bred, the more may we reason- great difference, however, in the ably spend of time and labor, to make amount of milk that can be safely fed, her surroundings what they should be, depending upon the individuality of

"scrub bull" might claim extra care less solid feed fed in the milk, the upon the ground that therein lay the less trouble we shall be likely to have,

Feeding Hay and Grain.

his calves the best of care and the ra- soon as they will eat it. Give them tion that will best develop them into all they will eat of it, none to waste, but all they will eat.

A large number of the cows in dairy Prepared calf feeds are not generdistricts are under size. The feeder ally injurious and some of the are of young animals for beef, readily very good, but they are expensive, and realizes the value of rapid growth, but are not necessary. However good the man who is growing calves for a they may be, they can never make up future dairy, is far too apt to think for a lack of care, or for bad methods

ter the little calves have come to like time than at another. We are perfectly sure that the it, he gives them small pieces of ears.

Learn by Observation.

The change from a ration of hay, sure this is an extravagant ration.

ensilage, dry grain and milk, to one of succulent grass alone, is too abrupt. The change from a warm barn to an open pasture, and often to chilling winds and protracted rains is tion and retards their growth. The grain should be continued after they are turned out, and if they can be brought back to the barn nights for a time until they are accustomed to their new surroundings it will be much better for them.

This sort of treatment will insure than a dollar. It is not wise to hesi- normal development, and that will It is probable that the interest in tate long about putting an extra dollar mean larger and better animals later on. If we want to get the most out of present time. There are few people Nature's food for the young calf is our progressive methods in breeding, we must take care of the calves after ious to improve their herds. They it. It is not necessary, though, that it we get them. We can never look for realize that no matter how well their should contain five per cent of fat, the best results from the progeny of cows are paying them, there is oppor- The Holstein calf will grow as fast the most prepotent sire, unless we tunity for improvement. The hope of and keep just as healthy upon very give his daughters a chance to de-

I have written this because I feel and am sure that many readers of the Michigan Farmer, who have been led There is often a tendency to feed to adopt modern ideas and methods in this article.

Oceana Co. W. F. TAYLOR.

AMOUNT OF COTTONSEED MEAL TO FEED.

In the November 14 issue of the Michigan Farmer, that Mr. Lillie says he feeds a cow no more than two pounds a day of the three highly concentrated feeds and that ground oats makes up the balance of the ration. I thought in former years he recommended four pounds of cottonseed meal. It seems to me now that I am overdoing it, with the highly concentrated feeds. I'll tell you what I am feeding my new milch cows and wish you would compound an economical ration to suit my case. For roughage you would compound an economical ration to suit my case. For roughage I feed about 40 lbs. of good silage, with some corn in it, a day, in two feeds, morning and night. At noon a bundle of fodder, corn with corn nubbins on it. Grain ration, 4 lbs. of oil meal, 4 lbs. of cottonseed meal, 4 lbs. of bran a day on silage. Cows average 3.54 test milk. Ottawa Co.

I don't remember ever recommending as much as four pounds of cottonunderestimate the greater value of a There are several kinds of grain seed meal per day for cows. If I ever large and robust specimen of the par- that can be fed to a calf with good re- have, it was a mistake and not accordsults. Wheat middlings are all right, ing to my best judgment. I never in-We do not expect the dairy calf to corn meal is good, ground wheat will tended to recommend over two pounds grow into the type of a beef animal, give excellent satisfaction, and ground per day, and always recommend feedwe do not expect the Jersey or Guern- oats are equally good. The calf may ing this product by itself so one will sey calf to ever resemble either in also be fed whole grains—oats or know just what amount he is feeding. size or form, the animals of larger corn, and will make good gains on It is some trouble to mix cottonseed meal with bran or corn meal and get I know a man who always feeds his an even distribution through the mals of the breed we happen to be calves corn in the ear. He begins with whole mixture, hence one is liable to a few kernels of shelled corn, and af- feed more cottonseed meal at one

My opinion is that D. H. B. is feeddairymen of Michigan are annually By and by he gives them the whole ing more protein than is necessary, losing a great deal of money because ears in larger quantities, and has no but his roughage is lacking in protheir cows are under size. Not that trouble in the way of bad digestion. tein. We have alfalfa hay to feed Cottonseed meal should never be twice a day, and silage twice a day, it, but the profit is smaller than it given to a calf, but aside from that I which enables us to feed a little difwould have been if they had been so would feed calves almost any grain ferent grain ration than D. H. B. with fed and cared for when they were that they like. A little ground flax- nothing only the corn plant for roughcalves as to have grown them into seed with the other feed is good. age. If he had alfalfa or clover hay Blood meal in very small quantities is to feed, I am sure he could cut out the The writer has grown some of these sometimes of use, and as we have oil meal or the cottonseed meal, (one small cows himself, and so comes in said, prepared feeds are found to give of them), entirely and reduce the othfor a share of the advice he is giving good results now and then, but if our ers one-half, that is, to only two away in this number of the Michigan calves are kept in clean quarters, fed pounds, and get as good results as he from clean pails, not allowed to suck is getting now. At least we do it, and Perhaps we might grow a larger each other after eating, fed their grain I believe his cows would be better off heifer upon whole milk, but it's doubt- dry, and given their milk straight, next spring for the ration of less high ful if the animal would be larger af- and not in too great quantities, we protein concentrates. Even with his ter two or three years, and the added shall have little need for any of these roughage I think he should cut off at expense would be so great as to dis- expensive and widely advertised feeds. least one-half of his oil meal and cottonseed meal, making only two pounds The successful feeder must be ever each per day, and perhaps increase whole milk for a time, and my prac- on the watch. He must study his bus- the bran a pound or two, and he tice is to let the calf do the milking iness. He must use his head all the would get equal or better results, four for the first three days and occasion- time in his work. He must watch the pounds of cottonseed meal. Four animals he is feeding, and learn to pounds of oil meal and four pounds of Generally speaking, I have gotten know what he sees while watching. bran makes a lot of protein over three One thing more, and I will close pounds of protein in the grain ration was two weeks old, making the this article. We often stop feeding alone. This is more than feeding change gradually. This seems to be our calves too soon. It is quite com- standards call for. Experiments show a common practice, but I have come mon practice to turn the fall calves that 2.5 lbs. of protein per 1,000 lbs. to feel that there is a better way. This out to pasture too soon in the spring. live weight is amply sufficient. I am

Practical Science.

DYE STUFFS.

BY FLOYD W. ROBISON. (Continued from last week).

particularly woolen fabrics, and this period is over. method is taken advantage of in the England Proposes to Compete with laboratory to distinguish dye stuffs of a certain character. Certain coal tar dyes, while completely soluble with Drug Reporter, November 30, 1914, an out residue in water, when placed in contact with wool affix themselves to this respect, looking forward to the the wool and become insoluble so that subsequent washing or treatment with dye stuff industry in England. This is water will not again dissolve the color. Some dyes will do this only when of the development of dyes from coal treated with what is known as a mordant. Picric acid, for example, a yellow coal tar dye, is soluble in water, British circles, that the participation and if a piece of wool or silk be soaked in a water solution of picric acid, means ultimately the complete indethe wool fibre and the silk will take up the yellow dye and will not give it up again when treated with water. In other words, picric acid on wool and silk is known as a "fast" dye. Now, however, if a piece of cotton fabric be immersed in the watery solution of picric acid the fabric does not become permanently colored. The picric acid will dissolve again when the cotton fabric is treated with

It is evident, therefore, that wool and silk have some relationship to picric acid which cotton does not have. Evidently the yellow picric acid dye becomes insoluble when brought into contact with wool and will not redissolve. The problem, therefore, in dying cotton with pieric acid is to produce an analogous condition as in the dying of wool, that is, in some way make the picric acid dye insoluble when brought into contact with This is accomplished cotton. through the use of a mordant.

One of the best examples of this use is with the dye known as alizarin. If a piece of cotton fabric be dropped into a watery solution of alizarin (another coal tar color) the cotton fabric will become colored yellow, but this yellow color will wash out again and the patron gets the residue. What feeding value has the whey by the time the patron gets it? Is there enough food in the whey to make that an inducement to sell milk to the cheese factory?

A. H. yellow color will wash out again when treated with water. Suppose, now, treated with a mordant material such as follows: as aluminum, which has been taken not be washed out. Now, then, if this fat. Whey, 0.8 per cent protein; 4.7 dipped into a watery solution of ali- fat. zarin, which is yellow, the alizarin forms an insoluble compound which a very appreciable value, nevertheless. in this instance will be red, and thus However, whey has a wider nutritive affixes itself permanently to the cot- ratio than skim-milk, that of whey beton fabric. Various other salts, such ing 1:67, while that of skim-milk is as iron, chromium, tin salts are em- 1:2. This fact must be taken into ployed as mordants.

ducts Also. This is merely one of the ways in isfactory results cannot be obtained. mous industry and from a scientific as skim-milk for feed.

viewpoint is a distinct triumph. All honor, therefore, to German industry and skill in placing this industry on the important footing which it now Dyes are naturally substances of a has. As in the case of the embargo variety of colors but something more on potash salts, however, much diffithan a coloring substance is neces- culty has been experienced in secursary for it to be a dye. In addition to ing adequate quantities of these probeing colored and of high staining ducts at the present time, due to the properties, it must have a further European war, and unquestionably property of affixing itself to the wool- this will have the effect of stimulaten or cotton, or silk, fabric in such a ing the production of these different manner that it becomes insoluble and materials in this and other countries, hence will not readily wash out so that German supremacy in these Some dyes naturally have this prop- lines may be in a measure threatened erty of affixing themselves to fabrics, and at least questioned when the war

Germany in Dye Manufacture.

In the last issue of the Oil, Paint & important announcement is made in stimulation of the development of the nothing less than the direct fostering tar by the British government. It is expected and hoped, particularly in of the government in this matter pendence of England from Germany in the production of all classes of synthetic dye stuffs and in perfumes and medicinal products which are at the same time synthetically produced from coal tar. This includes not only dye stuffs but carbolic acid and its products, synthetic oil of wintergreen, many drug products, etc.

If American manufacturers will read the lesson of the present conflict aright, industries of this nature will become more plentiful in this country and in case of emergencies of a similar nature, which we hope may never again arise, but which undoubtedly will for some time be among the frightful possibilities, the dreadful commercial interruptions to business will not be so generally apparent.

FOOD VALUE OF WHEY.

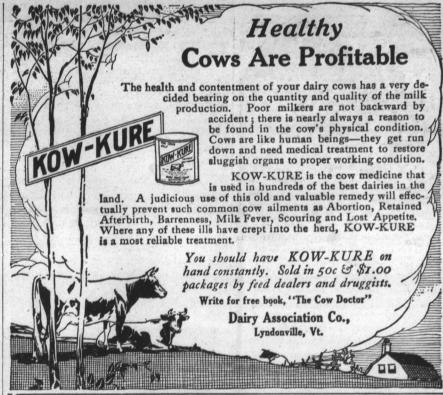
I notice the cheese factory adver-tisement says, "whey free." The cheese factory runs the patrons' whey

Whey certainly has a food value well worth saving. Its chemical food this cotton fabric has been previously analysis compared with skim milk, is

Skim-milk, 2.9 per cent protein; 5.2 up by the fibre, is insoluble and can- per cent carbohydrates; 0.3 per cent cotton fibre containing aluminum is per cent carbohydrates; 0.3 per cent

It will be seen that whey is not as combines with the aluminum and valuable as skim-milk, but that it has consideration in feeding whey if one Coal Tar Dyes are Used in Food Pro- gets its full food value. Oil meal, gluten feed, etc., foods rich in protein In determining the kind of coloring should be fed with whey, while corn matter used in a silk cloth of excep- meal, barley meal, flaxseed meal, etc., tional quality some time ago, we should be fed with skim-milk. In this found that it contained nearly eight way one can balance the ration and per cent of its weight of tin used as a get the full food value of such promordant to fix the color in the fabric. ducts, while if they are fed alone, sat-

which fabrics are colored with coal You can raise good calves or pigs tar dyes. These coal tar dyes are on whey if you will feed oil meal and used in the artificial coloring of many gluten meal with it, but if fed alone food materials. Oleomargarine is an it does not contain the food nutrients illustration of a class of food products in proper proportion, hence does not extensively colored with aniline, or give satisfactory results. It is safe to coal tar coloring matter. It is an enor- say that whey is worth half as much





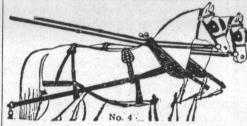
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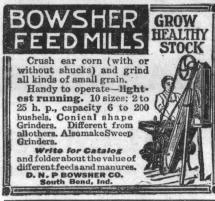


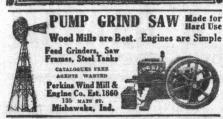
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Duck Raising on a Large Scale.

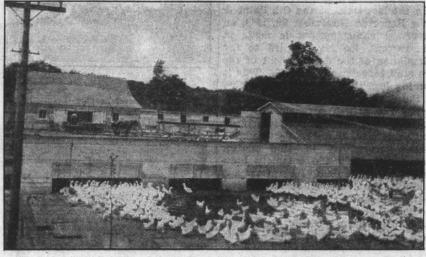
amazing, quacking spectacle I ed with eggs. witnessed when I stopped over at the little central Michigan town to visit another house on the farm has a ca- the age of eleven months. the duck farm I had heard spoken of pacity of 11,000 eggs at one time. As farm at Alma, and Superintendent The death rate is remarkably low as day before they die. George Mason says it is only in its a result of the care with which they infancy.

000 ducks at one time.

But it is a new industry in Michigan

is only an experimen is only an experimen farm in Alma, Michigan, was the pecessory to hear if the pecessory to hear it. farm in Alma, Michigan, was the necessary to keep the incubators fill-

> are handled. Clean food, clean houses, with plenty of pen space to fatten.



The Swimming Pool and the Feed Room.

responsible for the popularity of the cent. The feed is all mixed with rich them. chicken, but if they only knew it they buttermilk, a by-product of a creamcould make more money raising ducks. ery that adjoins the farm, and at the

Duck Raising in its Infancy.

"Duck raising is not yet even in its infancy. It were more correct to say that it is in an embryonic stage, but once the people of this country learn of the possibilities of duck raising the chicken will fall into the discard and their attention will be devoted more and more to the raising of ducks."

The duck farm at Alma is only an experiment of the Chicago packing house. The rapidly dwindling supply of game fowls for the high-priced hotels and ocean liners has made the duckling a necessity, and with characteristic foresight the packers are beginning to figure on a way to supply the demand with profit to themselves.

They have hit upon the duckling, and ship thousands of these every year to the New York markets, where they are distributed to other metropoli and sent aboard the ocean liners to be served as game.

The average age of the duckling at the time it is killed is eleven months. In this brief space of time, according to Mr. Mason, it is possible to raise a duckling to the weight of five pounds of "the sweetest meat you ever tasted," to use his own words.

Duck Raising on a Scientific Basis. garding the raising of fowls are put concrete mixer aforementioned. It employs 30 men.

where selected drakes and choice duck any day in the year. He has duce youngsters that are strong and

farmers interested in poultry raising, and the choice fare of the duckling's end of eleven weeks the ducks weigh on an average of five pounds each andare ready for market. They receive from 16 to 20 cents a pound for them, according to the season.

A Food Mixer.

pattern, operated by electricity, and recently, than ever before, and we

reduced the business end of the farm to a science, because the present farm is only an experiment and all avail-

Four tons of feed are eaten every day by the ducklings on this farm, and The battery of incubators kept in they look it when their time comes at

One of the most peculiar things by every farmer in central Michigan soon as the little ducklings are hatch- about this farm is the utter absence whenever poultry came up for discus- ed they are placed by themselves in of water for the ducks to paddle in. sion. An annual output of 36,000 a little pens and fed on the choicest of They are given enough to drink but year is the record for Swift & Co.'s fare until they pass the danger period. never swim but once, and that is the

Swim Only Once.

On this happy occasion they are Raising ducks is a profession new and proper regulation of the heat dur- driven into the death chamber, which to the farmers of Michigan and most ing cold weather is the secret of car- is equipped with a copious concrete of the United States. Only on Long rying the downy duckling through the tank full of water. The ducks are al-Island do they raise them extensively first two weeks of its life. After that lowed to paddle at will on the last day and on the great farms at this place they are placed with other birds of of their life in the cool waters of the there are sometimes as many as 100, their own age in sheltered houses, artificial pond. This is not an act of kindness on the part of the superin-These are called fattening sheds, tendent, because it is figured that the and one that will bear watching by the largest of which is 560 feet long, business of paddling reduces the weight of the duck. It is done simply to let them bathe and clean themselves off to save the executioner the trouble of performing this task on the morrow.

They are killed rapidly and quietly at the rate of 700 a day. The heads are left on, and the ducklings are placed in the refrigerators to await shipment.

"Our experiment with this farm here in Alma has been very successful," said Mr. Mason, "and I believe the day will come when ducks will be so much in demand that we will have farms in many states."

George Mason is a young man about 35 years of age, and a native of Waterford, N. Y. From his early childhood back on the farm, he has been interested in ducks. After he finished high school he worked for a time on the big farms of Long Island, and lat-"Nobody knows," said Mr. Mason, early days is continued but with more er took a course in poultry husbandry "the money that can be made in the abundance. The ducklings are given at Cornell University. He is enthusiproper raising of ducks. Hitherto practically all they want to eat of the astic on the duck subject, and alpoultry men have confined their ef- following appetizing menu: Corn meal though a busy man, is always ready forts to raising chickens. The market- 50 per cent; flour, 25 per cent; beef to discuss the duck problem with able value of a hen's egg is probably scrap, 20 per cent, and bran, five per those who are interested in raising

Kent Co.

J. F. BOLGER.

GETTING TURKEYS READY FOR THE MARKET.

It is quite an art to grow turkeys and round them up for market so that they will bring in a fancy price. I A food-mixing machine of the latest have begun to realize this fact more



A Bunch of Young Ducks.

fed in such a manner that the food of have been raising turkeys for years.

the ducklings is never touched by hu- Many turkey growers have not mas-But great care and diligence must man hand, acts like a great concrete tered the art. I see thousands of turbe exercised, and the business must mixer and thoroughly mixes the dif- keys come to our markets entirely too be undertaken seriously or the enter- ferent food elements on the daily bill "green," that is, "soft," and anything prise may be doomed to failure. The of fare. The buttermilk is piped to but plump and fat, like they should be big farm at Alma is a model of its the machine from the creamery, and for market purposes. I have learned kind. All the latest devices and all the finished product is poured into in years of experience that to begin the latest scientific information re- wagons much after the fashion of the finishing turkeys for the market we must begin with parent stock as we into practice at the Alma duck farm. Mr. Mason keeps an accurate ac- cannot grow prime market turkeys count of every duckling from the day from late immatured stock. It is our It covers sixteen acres comfortably. it is hatched until the day of its exe- custom to retain only the very earliest At one end, set apart from the fatten- cution. He can tell you if you want birds, yearlings and two-year-old hens ing sheds, is the breeders' house, to know, just what it cost to feed each for breeding. Birds of this kind pro-

stock. Breeders must be at least 11 she do either one or the other. months old to produce good healthy Hens Should be Provided with Lime, stock. Early pullets produce almost as hardy poults as yearlings, provided case with weak, scrubby stock.

Do Not Inbreed.

fail to get good hatches we fail to get largely composed of lime carbonate.

place the young out with the turkey some instances old plaster is put in mother, away from other fowls, near the hen coop but the majority of men a high brush or wheat field where it who expect their hens to give them is possible for them to find natural some winter eggs are supplying the protection from crows and hawks. We biddies with oyster shells in some feed very little at first, but from two form. This gives a serviceable mateto four weeks we give them a regular rial, yet cheap. ration of chick feed, brown bread, etc., Charcoal is a general condiment for or other feed just to teach them to cine and while it may serve some have a large range to thrive.

brilliant in plumage, and in prime con- not so fortunate. dition for feeding when heavy frosts appear. It is not necessary to feed for a couple of months in order to get turkeys in condition for market. If I can get two weeks or a little better, of cold weather before the holidays, I can feed heavy and not injure the health of the turkey and have them plump and fat for the market. If in prime condition, they will usually bring from two to three cents more per pound than the usual market price. I know of many instances where people were willing to pay as high as five cents per pound more for the prime medium sized plump turkey. Feed Heavy for Two Weeks Before Marketing.

I have found it easier and more profitable to round the poults out good and fat by feeding but little until ten days to two weeks before the market date. Then I feed all the poults will clean up nicely, keeping plenty of charcoal before them. They will eat heavily of the charcoal when being fed on fattening rations, and this is quite essential as it keeps them healthy and strong. Clean water and good sharp grit is always provided when they are in confined quarters.

H. W. SWOPE.

EGG LAYERS' SUPPLIES.

Many times, chickens do not lay in winter because they are not supplied with some of the materials which go tion are just as exacting as are those eggs that are produced. of the locomotive which carries us so swiftly from place to pla man may make himself crazy shoveling coal and the engineer may keep the working parts polished to the highest degree and yet, unless water is supplied to the iron horse, he fails to work, but stands an ineffective and useless bulk of parts. The example is very comparable with the hen. She may have it in her to produce a fine lot of winter eggs but fails in this through lack of the owner to provide her with suitable materials for making these eggs and keeping free from vermin while the producing process is about \$1.00 for the 160-piece selection going on. No hen, no matter how in- and the calendar. If you mail your dustrious, can make a success of lay- order today you will get it.

large and they grow out much faster ing eggs and fighting lice at the same after maturing 20 to 25 days earlier time. She may be good at both jobs than those from unmatured parent but a division of labor demands that

Charcoal and Dust.

On some Michigan farms, this winthey are mated to an early, well-bred ter's production will be lessened Tom. The progeny of early matured through the lack of proper material stock are not as apt to contract dis- out of which to make the egg shells. eases common with turkeys as is the One can raise all the good apples he wants to and unless barrels are supplied in which to ship them, they do Another thing to be avoided is the not amount to much. The hen must mating of related stock. We have had be provided with a receptacle in no success with turkeys that were re- which to place the egg. It can scarcelated. We make sure that the hens ly be questioned that many hens are are not related to the Tom. As eggs supplied with the proper foods to do not come fertile from related stock make eggs from, but this lack of lime and if eggs fail to run reasonably high in some for mresults in few or no in fertility, it will be impossible to eggs, or perhaps a few, unsalable softhave a successful hatch, and when we shelled ones. The egg shell is quite poults that were healthy and strong. When the old hen can have free ac-Few breeders realize how important a cess to range, she can usually find all matter it is to have early stock until this material she needs, but when shut they begin finishing up the poults for up, some must be supplied to her. The exact material used will vary with the When poults are first hatched we location and the materials at hand. In

after this we give them a little wheat chickens. Some regard it as a medicome home at night. Turkeys must medicinal functions, it seems to act as a toner. No matter how it works ex-As they grow we give them more actly, the truth remains that hens are range and less feed. By November more healthy and vigorous when supthey are large in bone and frame, plied with this material than are those

Give Hens Dusting Place.

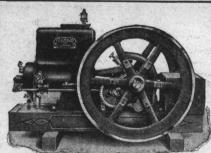
The henhouse should be supplied with plenty of ordinary road dust. There is no henhouse so clean that the likelihood of vermin getting a foothold does not present itself during the winter. Those hens that are working the hardest to fill the egg basket are just the ones that the lice single out for the first attacks. The vitality has become somewhat lower than that of the lazy birds and they are more subject to lice and diseases. In the fall, the Cornell lice powder can be made and sprinkled onto the chickens from a can, through the bottom of which some nail holes have been made. This will give the chickens a good start.

To make this powder mix onefourth pint of crude carbolic acid with three-fourths of a pint of gasoline. Into this, thoroughly stir two and onehalf pounds of plaster of paris. This will harden and the lumps may be pulverized by forcing them through a fine mesh sieve. After drying, the mass is put into a bottle and tightly corked and will stay effective for a long time. If lice are present, it will take good feed to feed them. A liberal application of this loose powder when the chickens are put into the coop in the fall will get the majority of them eradicated. Then by giving the layers a liberal supply of good dust to bask in through the warm part of the winter days, many more vermin will be kept down. These laying-house accompanito make up the egg. The demands of ments are inexpensive and may have the hen in her business of egg produc- a bearing upon the number of winter

Ingham Co. I. J. MATHEWS.

One-half the food consumed by the hens should be ground. A good mash mixture for the fall and winter is as follows: Two parts bran, one part each of corn meal, middlings and cut clover and one-half part of beef scrap.

THE LAST DAY—Today is the last day you can get the 160-piece Christmas selection free with the Michigan Farmer 1 year at 50 cents, 3 years at \$1.00 or 5 years for \$1.50. You would pay in stores



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Pekin and White Indian Runner Ducks prices will please you, H. V. Hostetler, Route 1, St. Johns, Mich R. C. & S. C. Rhode Island Red Cockerels; also eggs in tors, "Satisfy customers". Jennie Buell, Ann Arbor, Mich.

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

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DETROIT, DEC. 19, 1914.

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Christmas, 1914.

whose coquette goddess of beauty, the measures were applied. planet Venus was named, when, a few face of the sun.

world is upon the threshhold of the ing and making laboratory examina- importance will be asked. This will who use this powdered spraying mate gentle, kindly spirit of the Christmas tions of material from diseased cattle, bring a personal letter of advice from "Up-to-the-Minute" spray calendar

The Michigan Farmer should come with potency to its great mouth disease. In the meantime the ment, Michigan Farmer, Detroit, Mich. heart.

> est sympathy, we realize the calamity the disease, with the result that durbefallen our sister nations, we may ing the last of September the disease well have a deep and quiet joy in the was reproduced by inoculation, and fact that our own "government of the the attention of the federal authorities people, by the people, for the people," was again directed to this fact and to is "at peace within its borders and the increased prevalence of the dis-

> peace, should be welcomed and brave- ments, which continued during the ly met, as equally a duty to the world balance of October, established new and to ourselves.

mind more forcibly than through the costly.

template its boundless legacy of sor- officials as promptly as should have row, suffering, of destruction, and been the case, yet the similarity of long-lived bitterness, a potential hu- this disease to other less infectious man loss that centuries cannot restore diseases with similar symptoms and -and without one compensating gain, the rare occurrence of the disease in except it be in the death of militar- this country are extenuating circumism; perhaps nothing would more stances which should be given full clearly and vividly display to their weight. Undoubtedly should other suscomprehension, the intrinsic worth of picious cases occur while this outpopular government and the sweetness of the conditions of peace, than cials and laymen alike, quarantine

CURRENT COMMENT.

The History of the Epidemic.

and-mouth disease will, it is hoped, be closed with the payment of claims for animals destroyed and the official release of the quarantine necessary to congressional investigation as propos- one year. Should the war continue in Congress.

cial for sins of ommission as well as ther. But it is certain that we can commission. Oft-times such criticisms not under any circumstances make appear just in the light of ultimate the price lower than our present offer MPHASIZED with the spice of a knowledge regarding the situation, of 50 cents for one year, \$1.00 for humorous touch, our cover de- when in reality they may be more se- three years or \$1.50 for five years. sign presents a timely lesson, vere than is warranted by the circum- Nor could we make the quality better upon which the American people may stances during their period of devel- at any price, since we are doing our ell ponder.

There is, however, undoubt- very best to make the Michigan FarmThe artist mind naturally reverted edly occasion for regret and probably er of maximum value to every reader. to that imperial company of the an- criticism in the fact that this outbreak There are countless good reasons why cient gods upon Mt. Olympus, after became so general before remedial every farmer in Michigan should take

weeks ago, the intelligent world, in sought to discourage criticism along now being made should prove an invarying degrees, shared the deep in- this line until after the campaign of centive for every present reader terest of the astronomers in the little eradication had been successfully com- whose subscription is about to expire planet's periodical transit across the pleted, we have attempted to ascer- to renew at once. If your subscriptain and catalogue the facts connected tion expires on January 1, 1915, your with the outbreak from the time when date tab will read 1Jan5

"Peace on Earth, Good Will to Men" cotic stomatitis instead of foot-and- are referred. Address Legal Departinfection spread to other herds whose Though in sadness and with broad- owners sought state aid in diagnosing was again directed to this fact and to centers, thus making the final eradica-Truth cannot come to the human tion of the disease more difficult and

40 cents per line agate type measurement, or \$5.60 per inch (14 agate lines per inch) per insertion. No adv't in serted for less than \$1,20 each insertion. No objectionable advertisements inserted at any price.

Entered as second class matter at the Detroit, Michigan, postoffice.

While, as above noted, these facts make it appear to the layman that ropean conflict is over and the unhappy peoples involved have but to converted by Department template its boundless legacy of sor-officials. weight. Undoubtedly should other suspicious cases occur while this outbreak is fresh in the memory of officials and laymen alike, quarantine and it is believed that 25 lives were ness of the conditions of peace, than cials and laymen anae, quantity to have frequently come under their regulations will precede rather than vision the legend, "Made in America." follow the diagnosis of the difficulty. Mexico, has taken cognizance of the follow the present to have been the gravest situation at Naco, Sonora, which is error in the handling of this outbreak which, however, was compensated for The last chapter in some degree by the vigor with in the history of which the campaign of eradication the recent out was pushed to successful completion break of foot after it was once begun.

FACTS WORTH NOTING.

In giving our old subscribers an opthe stamping out of the disease. Re-portunity to renew for more than one cent reports are to the effect that pay- year at a low price we are not changment for the cattle by both state and ing the regular price of the Michigan federal authorities will be made at an Farmer from \$1.25 to \$1.00 for three early date and the quarantine will be years, or from \$2.00 to \$1.50 for five lifted as rapidly as reasonable precau-years. We are just making a bargain tions will permit. It is possible, how- price for the present, and may be comever, that an appendix may be added pelled to go back to the old prices for to the history of this outbreak by a subscriptions running for more than ed in resolutions recently introduced and the price of paper and ink advance as expected, we may be com-It is easy to criticize a public offi- pelled to advance the price still furthe only trade paper published espe-While we have refrained from and cially for him, and the bargain price

gentle, kindly spirit of the Christmas tions of material from diseased cattle, bring a personal letter of advice from "Up-to-the-Minute" spray calen season and the sweet message of diagnosed the condition as due to my- the attorney, to whom the questions mentioning the Michigan Farmer.

HAPPENINGS OF THE WEEK.

Foreign.

The European War.—The struggle goes on regardless of winter weather. The peculiar position of the forces, especially in the east, no doubt makes necessary the continuation of active operations by both armies. Neither the Bussians nor the Germane are sitis "at peace within its borders and with all nations," and far removed ease during the first week in October. The following week an expert from the Armageddon of so many of the subjects of the "rulers by divine right."

To deliberately wish that opportunity come to us even if through the calamity of another people, would be as unrighteous as it would be cold-blooded and cruel; but war increases had been prevalent, shipments of rather than lessens the world's needs and the increased burden of production that necessarily falls upon us as the greatest agricultural nation at peace, should be welcomed and brave
The following week an expert from the following week an expert from the disease of the during the first week in October. The following week an expert from the dermans are situated so they can "mark time" without sacrificing advantages already gained and opportunities for further strengthening of positions. The Germans have pounded the Russian centers and active measures were at once takent to establish a local quarantine. But during the weeks in which the disease had been prevalent, shipments of strengthened both ends and threaten to outflank the Teutons, particularly in the vicinity of Cracow in western Galicia has the flanking movement clients and the increased burden of production that necessarily falls upon us as the greatest agricultural nation at peace, should be welcomed and brave
The following week an expert from the sustence of the during the scene of the country from the course and and opportunities for further strengthening of positions. The Germans are situated so they can "mark time" without sacrificing advantages already gained and opportunities for further strengthening of positions. The Germans are situated so they can "mark time" without sacrificing advantages already gained and opportunities for further the outbreak and finally diagnosed the outbreak and finally diagnosed the difficulty as foot-and-mouth disease, and active measures were at once taken the first week in October.

To delib als. Both sides contend that the posi-tion is growing more favorable. The Servians have had a successful week against the Austrians. In the west the Allied forces have taken the of-fensive at points in northeastern France and also repulsed the Ger-mans at Ypres. The line, however, seems to remain about as a week ago with the movement of troops confined with the movement of troops confined to small detachments. At Aspach, Al-sace, the Germans made a desperate effort to dislodge the French but fail-ed, according to announcement from Paris. On the sea the British squad-dron, assisted by Japanese boats, sucdron, assisted by Japanese boats, succeeded in locating and destroying the German fleet that a fortnight ago defeated the British off the coast of Chili, and that has been operating in the southern seas for some time. This victory gives the English navy complete control of the seas save the Balilian are the state of the North Coast.

situation at Naco, Sonora, which is just across the boundary line between Mexico and United States, and ordered the cessation of hostilities at that point. Here fighting between rebels and federals had resulted in stray bulets coming across the boundary and injuring and killing persons on the American side. The matter was referred to Washington and thence to the provisional government at Mexico the provisional government at Mexico

City.
Emperor William of Germany is convalescing and some dispatches indicate that he expects to go back to

National.

Continuous disregard for the shipping rules governing in the waters adjacent to the approaches of the Panama Canal, by ships of warring nations has resulted in a request by Governor Goethels that gunboats be sent to enforce these rules.

For the first time in its history the post office department will show a surplus for the fiscal year of 1914. The

post office department will show a surplus for the fiscal year of 1914. The parcel post and postal savings bank are credited with much of the surplus profits. In a statement by Postmaster General Burleson the public ownership of wire lines is urged.

Sereno E. Payne, for more than 30 years a member of the national House of Representatives died in Washington last week and funeral services were held in the chamber of the House Sunday.

A movement has been started in

House Sunday.

A movement has been started in Congress looking toward the prohibition of exports of war supplies to beligerent nations.

The opening of the New York stock market last Saturday and the liberal manner in which stocks were purchased indicate a generally improved condition in financial circles of this country.

Up-to-the-Minute Spray Calendar.

"Consider this comparison—600-lb. barrel against 100-lb. drum." This comparison was made to show the difference in the freight charges on ordinary commercial lime and substruction. In quite natural artistic sequence with the outbreak from the time when also, is the imagination of the lumber-ing obesity of the jolly old Santa narian at Niles, Mich., during the latter of Claus, with his heavily loaded bag of Christmas Cheer, in comic imitation of the dainty Venus as he follows her across the "spot-light" of public interest.

To the layman these facts seem to Throughout her history, war and suffering and sorrow have repeatedly tivity on the part of the federal burdled Europe: but never before for first days of September by the State centuries has her cup of woe seemed so full as now when the christian ends and suffering and making laboratory examina-importance will be asked. This will

Magazine Section

LITERATURE
POETRY
HISTORY and
INFORMATION



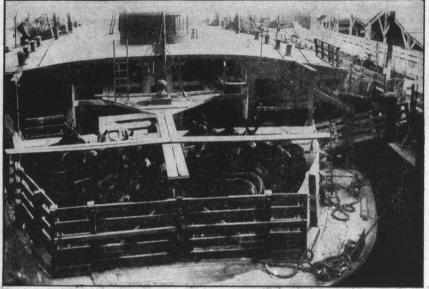
The FARM BOY
and GIRL
SCIENTIFIC and
MECHANICAL

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

WORLD EVENTS IN PICTURES.



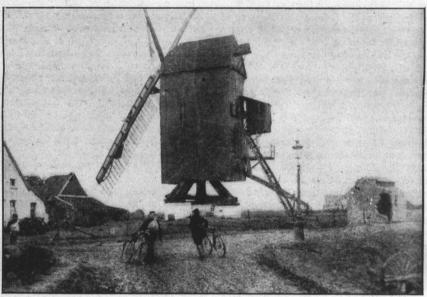
Belgian and British Cavalrymen Wintering in the Trenches.



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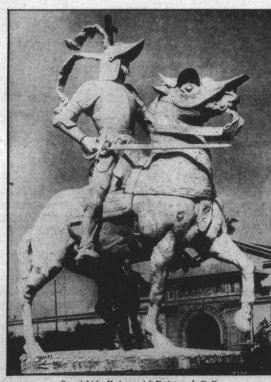
German Marines Returning to Camp with Cattle from Northern France.



Copyright by Underwood & Underwood, N. Y. Windmill Used by German Sharpshooters now in Hands of British.



Prince of Wales on way to the Front.



Masterpiece of American Sculptor.



German Soldiers Share Meal with Belgian Waifs.

No. 2908's Christmas Eve Run-By Edgar White

MERGING from a brilliantly-light- cocks and grasped the long, slender The crest of the long grade is reach- through in time for you," smiled the arm, pulled down his peaked cap with ing over a polished floor. his right hand, rolled up his overcoat collar and trudged through the snow way to the war. into a darkened by-street on down to his way easily enough.

reached the far end of the station and shown like stars from the high bluffs. was about to pass out into the yards he was accosted by a muffled up fig- let her out "a few notches," and Jer- to the road-bed. ure carrying a lantern.

order for the French by express."

with anxiety.

"An hour to the bad, you'll have to ting volley from the safety valve. hustle. The army agent's here with the stock, and he's some nervous."

bluff, was what looked like some great est a multitude. monster of the fabled mountains. It the might of her immense boiler, 396,-

Dan Cadogan, the engineer, holding stepps of Siberia. tight to his big bundle walked nimbly along the ties of the viaduct, and his overcoat in a rack overhead. Jerry ing and the two men busied themselves about the engine; oiling, screwing up bolts, examining valves, and volume of mist. doing the many things the men of a

The couplings were made, and the air still showed red in the falling snow. tried. Only in case of the greatest line passenger train. But the men played across the seas those four carloads of horses might mean the turning of the tide in a great battle.

The snow fell steadily, looking like jewels in the rays of the electric head- of operation is sunk into the person-

Presently the enginemen who were seldom hear the word "train" used. bluffs far up the river, and Jerry re-

"She's coming."

No. 55, ten coaches long, roared incars filled with horses destined for box until needed.

The conductor and another man man was standing on the platform of of No. 55.

these horses." The man he presented run. was slender and dark-eyed. He wore a goatee.

neer calmly.

"Thank you, sir," returned the offi-

the railroad yards flanking the river. the world ahead as No. 2908 swung on was happening when the side of the While there was hardly sufficient light the bridge crossing the river. The cab smashed against his head like a piercing through the snow; its six through those sombre streets to guide girders of the great structure rattled blow from a prize fighter. Out ahead great drive wheels roaring like the a cat, the short man seemed to make as the long train glided on in an easy, he could see just an acre of white onward sweep of mighty cavalry; evswinging motion. The ark lights from light and a fiery eruption from the ery nerve strained to the breaking When the man with the bundle the city they were leaving behind sawed-off stack.

ry, the big brown-armed fireman, toss-"You got to take on four cars of ed more dark food into the glare of Turk, sat Dan. In front of his eyes would rest from its labors. horses tonight, Dan," he said; "rush the white-hot cavern below. The steam were a pair of fierce-looking goggles. The station signal was s "How's 55?" queried the short man, flickering up a few points, the move- rails ahead, nor his hand the lever. ment being announced by an ear-split-

er's border, the lighted cars behind with pent-up pressure. On the viaduct, outlined against the writhed and twisted about the curves uncanny glow from the lights on the like some panoramic display to inter- hammering of the rails were so ter- claimed. "You shall not be forgotten

was No. 2908, growling sullenly with across the North River bottoms on a of the road required while the engine high fill. On either side was a wil- was in motion, sounded like far-away engineer; "glad to serve you. Excuse 400 pounds of iron and steel and fuel. derness, flat, snow-covered, like the funeral chimes.

"Red block ahead!"

McGee, the fireman, nodded a greet-valve shrieking again and a white side track awaiting its passage. cloud burst over the great cylinder

urgency is stock shipped on a trunk along, Jerry," directed the engineman. see how the man in the cab of No. 55 who bought them were willing to pay, hand gangway steps and strained his hand that snowy night. because in the sombre drama being eyes into the darkness until he saw a "firefly" off in the gloom.

"Yes, sir," replied the stoker; "he'll be here in a minute."

ality of the man at the throttle. You

"Jerry," he said, "there is a tramp

"White light!"

The "firefly" had run in and clanged walked briskly forward. The engine- harshly across the pathway in front conductor.

"Seven minutes more!" muttered gineman. "Dan," said the conductor; "this is the engineman, with serious concern. Colonel Lamartine-he has charge of It was piling greater odds against the "Zat's ze talk."

Monsiuer," declared the officer, with Howitzer-like cylinders ahead every the none too solid piers, and once or tions. Ze army is needing them- But the curves and the grade and the though the fragile structure was gofourteen heavy cars behind were tre- ing to give way. "We'll go some," replied the engi- mendous drags against the high en- It seemed a long, long while before deavor of the big machine.

gold in searching for thrills of a less ate chance he took back there." The cavalry horses were on their strenuous character than came to the layman in the cab that night.

A great cloud of steam blotted out He began to realize that something soldier of France-he ought to be."

Underneath the trailer glowed with

gauge stood at 200, now and then Never once did his eyes leave the snap, and the long train glided in un-

to the full warranty of the makers. the platform, where Colonel Lamar-Along the rock ballast from the riv- Every valve and cock was sputtering tine, the grateful one, rushed up to

The din of escaping steam and the rific that the slowly delivered strokes for this night's good work. The cross The road then straightened and led of the automatic bell, which the rules of ze Legion-France will-

On through the dark night, throwing miles upon miles behind, No. 2908 til he got to the far end of the depot Off went the steam, and the engine- sped like a thing of life. It had the where the hacks were. He went up to climbed on his engine. He gently laid man's gloved hand fingered the tiny right of way over everything on the one, where an old negro was huskily his bundle in his seat box, and placed brass lever controlling the air. The road. As it clanged through the var- shouting: stoppage of the train sent the safety ious towns other trains were on the

At lonely way-side stations operat- body-" battery, shutting out the world in a ors could be seen with their faces track directly ahead. When it passed life to recover sixty minutes that had Get a move on!" A switch-engine pushed the four the engineman of 55 touched the long been lost by the "man" on the other cars of cavalry horses up the viaduct. slender lever. But the light ahead division, and it was interesting, even surprised negro. to a railroad operator, who saw hun-"See if there's another man coming dreds of trains crash by every day, to

In the engine cab the whole system but for the stop signal at Twin Rock, dangerous stream.

"Bridge over Devil's Creek scanning the river front observed a While they waited for the "man" in shaky," said the operator; "section jumped out and ran to the side door, meteor-like glow coming out of the distance to come in, Dan's keen gang's out there now watching. The where he tapped gently. eyes detected a dark form climb up stream's up and coming down like a the fill and on the "blind baggage." torrent."

Then he seized the chain, swung op- on the blind; make him come in here ductor, the engineman and Colonel and the church bells over in town en the furnace door and ladled in and he can spell you a bit; you know Lamartine, discussed the situation. were chiming for Christmas. great scoopsful of coal. we got two bad hills to climb tonight." The bridge was a long wooden trestle, "Has she woke up yet?" a The tramp, glad to find a warm one of the last on the division since anxiously. to the station, the panting engine was place, promptly accepted the proffered the big engines had been put into seruncoupled, and the relief machine was hospitality and at Jerry's direction be- vice. Not having yet heard from di- Dan, as she took the big bundle. slowly backed down to its place. The gan pulling down the coal. Then he vision headquarters, the operator had, load was heavier by four long stock was allowed to sit on the fireman's on the principle of safety first, stop- the other end was late and I was ped the train so as to let the crew afraid-" know what was ahead.

"We'll go ahead," replied the en-

"Oui!" agreed Colonel Lamartine.

The long trestle swayed so percep- girl smiled in her sleep. Out of the North River bottoms and tibly when the heavy train crept slowa mustache and just the suggestion of through rock cuts and curves the flyer ly on to it that the section men, fear-doing it for his old horses," murmurstruggled up grade. No. 2908 was car- ing a crash, moved away. The dark ed the engineer. "It's one matter of life and death, rying through its tubes to the great waters swirled threateningly against some excitement, "to make ze connec- ounce of steam the gauge registered. twice there was a loud snapping as

> the train cleared the bridge, and as Spouting viciously from the short the tail lights of the last sleeper pass-

ed store full of belated Yuletide lever. No. 2908, without a quiver, ed, and with a sort of satisfied snort conductor as he stood in the aisle of shoppers, a short, stout man, without the slipping of a wheel, start- No. 2908 settled down to its work. the swaying car, near where Colonel with a great bundle under his left ed so smoothly that it was like glid- Men of wealth have spent streams of Lamartine sat. "That was a desper-

> "He is one brave man," declared the French officer, his eyes shining.

> On sped No. 2908, its keen eye point.

There was just the slightest hint of The bridge cleared, the engineman red embers dropping from the furnace dawn in the eastern sky as the glow far down the line betokened the di-Across the deck, curled up like a vision, where the gallant old engine

> The station signal was short like a der the sheds. Dan grabbed his bun-The engine was now measuring up dle and overcoat, and jumped down to grasp his hand.

"My good engineer friend!" he ex-

"That's all right, Colonel," said the me now-I'm in a bit of a hurry."

Dan pushed through the crowds un-

"Step dis way, people, for de Brooklan' house! Git right in. Every-

"Here, Mose," said the engineer against the window panes watching handing the negro a dollar; "I want A Milwaukee train, a long streak of the flyer go by. They knew its en- you to drive those skeletons of yours fast engine trust to no one but them- light in the dark, swept across the gineman was making the run of his faster than they ever went before.

"Whar to, Mars Dan?" asked the

"Home! Quit talking and get busy!" Mose understood. He climbed on the seat above as quick as his rheu-The fireman climbed out to the left- was doing the job of work he had on maticky limbs would allow him, and soon that ancient oil-lighted vehicle Despite the snow and the tremen- known as the hotel bus was bumping dous handicap of its unusual load, No. over the streets as though the Old 2908 might have retrieved that hour Nick himself were chasing it. Mose lost by the engineer on the first run, gathered the idea that somebody at Dan's house was sick, and he plied a town near a small but deep and the whip in a way that scared the life out of his sorry-looking plugs. is they got to their destination, and Dan

> A healthy young woman came, her eyes lighting up like stars, greeted Standing on the platform the con- her husband. It was now fairly light,

> > "Has she woke up yet?" asked Dan

"Still sound asleep," smiled Mrs.

"Thank goodness! The fellow on

The young wife unrolled the bundle "What do you say, Dan?" asked the and almost cried out with delight as she beheld the magnificent doll. Then they put it in a little carriage near a Christmas tree Mrs. Dan had decked during the evening and tiptoed into a side-room where a tiny brown-haired

"And that Frenchman thought I was

"LAND O' NOD STORIES."

What are they? Short stories of action and life that will go directly to the heart of every boy and girl who reads them. They are written by Howard T. Knapp, "the Children's Friend." The first will appear next cer; "I feel you will do ze best you stack ahead were two long oblique ed over the section men gave a shout coan."

The conductor handed the clearance different directions. Jerry, just finish-order, and the short man ascended ing with another meal for the engine, roaring along over high fills, twisting the iron steps to his position.

A tiny whistle cried shrilly through the cab. Dan opened the cylinder stage over to something."

The ded you will do ze best you stack ahead were two long oblique ed over the section men gave a shout week, and every succeeding issue will be featured by one. Inquisitive Billy and wise little Tinker appear and resorded around curves and darting through the cab. Dan opened the cylinder now, hold on to something."

The conductor handed the clearance different directions. Jerry, just finish-roaring along over high fills, twisting around curves and darting through old ones, will soon become thoroughly acquainted with them through our "He's bound to get those horses Magazine Department."

SANTA CLAUS AND LITTLE

E was only a little bit of a chap, and so, when for the first time in his life he came into close contact with the endless current of keep from tossing about in the surg- did you drop from?" ing tides of the sea.

the big toy-shop, with instructions not while ago while she went off about "That's just what I said to the to move until she came back, while something, and I guess I got losted." bookkeeper," said Santa Claus, "and she went off to do some mysterious with so many beautiful things on commands would not be hard. But, crowds hustlin' around."

"Don't mention it; you are very alas! the good lady reckoned not upon the magnetic power of attraction of Little Billee hopefully. "I'm found giving the youngster's hand a gentle all those lovely objects in detail. She again, ain't I?" saw them only as a mass of wonders which, in all probability, would so right, kiddie!" Santa Claus agreed. dazle his vision as to leave him incapable of movement; but Little Billee home again, won't you?" said the was not so indifferent as all that.

When a phonograph at the other end of the shop began to rattle off Santa Claus, looking down upon the —the good boys and the naughty boys melodious tunes and funny jokes, in spite of the instructions he had received, off he pattered as fast as his little legs would carry him to investigate. After that, forgetful of everything else, finding himself caught in the constantly moving stream of Christmas shoppers, he was borne along in the resistless current until he found himself at last out upon the street-alone, free, and independent.

It was great fun at first. By and by, however, the afternoon waned; the sun, as if anxious to hurry along the dawn of Christmas Day, sank early to bed; and the electric lights along the darkening highway began to pop out here and there, like so many merry stars come down to earth to celebrate the gladdest time of all the year. Little Billee began to grow and then he thought of his mama, and tried to find the shop where he had promised to remain quiet until her return. Up and down the street he wandered until his little legs grew weary; but there was no sign of the shop, nor of the beloved face he was seeking.

Once again, and yet once again after that, did the little fellow traverse that crowded highway, his tears getting harder and harder to keep back, and then-joy of joys-whom should he see walking slowly along the sidewalk but Santa Claus himself! The saint was strangely decorated with two queer-looking boards, with big red letters on them, hung over his back and chest; but there was still that same kindly, gray-bearded face, the red cloak with the fur trimmings, and the same dear old cap that the children's friend had always worn in the pictures of his that Little Billee had

With a glad cry of happiness, Lit- forting smile. tle Billee ran to meet the old fellow, dress be?" and put his hand gently into that of the saint. He thought it very strange that Santa Claus's hand should be so Claus. "Where do you live?" red and cold and rough, and so chapped; but he was not in any mood childish laughter. to be critical. He had been face to face with a very disagreeable situa- Little Billee, giggling.

If the lad had looked closely hadn't come home at dinner-time. I tion. Then, when things had seemed "Ha, ha!" laughed Santa Claus. enough he would have seen a very undon't believe you know where you have the old man's live though now honest! Come! take more than passing notice of any- all these years since you was a babby, his answer. thing strange and odd.

Santa Claus, of course, would recjust how to take him back to his sort of a boy do you think I have winds blowing at Christmas, and I park." mama at home-wherever that might been?" he added with a shade of anx- have to be ready for them. It "Oh, that's easy enough!" laughed be. Little Billee had never thought iety in his voice. to inquire just where home was. All of it, not far from the park.

By JOHN KENDRICK BANGS.

little atom of flotsam and jetsam to ing from his deep-set eyes. "Where know-"

g tides of the sea.

"Oh, I'm out!" said Little Billee meekly, "but I didn't mean to be know about these boards."

His mother had left him there in bravely. "My mama left me a little naughty."

errand. She thought, no doubt, that saint with a smile. "Little two-by- white and half black—that doesn't four fellers are apt to get losted when count either way, for or against you." every side to delight his eye and hold they start in on their own hook, spehis attention, strict obedience to her cially days like these, with such much comforted.

"Oh, yes, indeedy, you're found all

"Aud pretty soon you'll take me asked the boy.

human things, it was as hard for him the old fellow, glancing down at his -'way up among the good boys; the wind off Henry-he's our shuffler to "stay put" as for some wayward new-found friend, with surprise gleam- though once or twice last summer, you but papa wears a fur coat, and

"Very likely," returned the old so we gave you a gray mark—half

"Thank you, sir,' said Little Billee,

squeeze.

"Why do you call me kiddie when you know my name is Little Billee?"

"Oh, that's what I call all good boys," explained Santa Claus. "You "Surest thing you know!" answered see, we divide them up into two kinds

them," said Little Billee, much impressed by the simplicity of this arrangement. "We have a glass board "Why, howdidoo, kiddie?" replied many, kiddie. Fact is, you're all right on the front of our ortymobile to keep sometimes he says the wind goes "Yes, I know," said Little Billee right through that. He'll be glad to

> "I shouldn't wonder," smiled Santa Claus. "They aren't very becoming, but they are mighty useful. You might save up your pennies and give your papa a pair like 'em for his next Christmas."

> Santa Claus laughed as he spoke, but there was a catch in his voice which Little Billee was too young to notice.

> "You've got letters printed there," said the boy peering around in front of his companion. "What do they spell? You know I haven't learned to read yet."

> "And why should you know how to read at your age?" said Santa Claus. "You're not more than-"

"Five last month," said Little Billee proudly. It was such a great age!

"My, as old as that?" cried Santa Claus. "Well, you are growing fast! Why, it don't seem more than yesterday that you was a pink-cheeked baby, and here you are big enough to be out alone! That's more than my little boy is able to do."

Santa Claus shivered slightly, and Little Billee was surprised to see a tear glistening in his eye.

"Why, have you got a little boy?" he asked.

"Yes, Little Billee," said the saint. "A poor white-faced little chap, about a year older than you, who-well, never mind, kiddie-he's a kiddie, too -let's talk about something else, or I'll have icicles in my eyes."

"You didn't tell me what those letters on the boards spell," said Little Billee.

"'Merry Christmas to Everybody!'" said Santa Claus. "I have the words printed there so that everybody can see them; and if I miss wishing anybody a merry Christmas he'll know I meant it just the same."

"You're awful kind, aren't you?" said Little Billee, squeezing his friend's hand affectionately. "It must make you very happy to be able to be so kind to everybody."

Santa Claus made no reply to this remark, beyond giving a very deep sigh, which Little Billee chose to believe was evidence of a great inward content. They walked on now in silence, for Little Billee was beginning to feel almost too tired to talk, and Santa Claus seemed to be thinking of something else. Finally, however, the little fellow spoke.

"I guess I'd like to go home now, bright but tired little face with a com- -and the good boys we call kiddies, Mr. Santa Claus," he said. tired, and I'm afraid my mama will be wondering where I've gone to."

"That's so, my little man," said "Your address," repeated Santa the first time the square boards that Santa Claus, stopping short in his walk up and down the block. "Your "What are you wearing those mother will be worried, for a fact; he and your father, too-I know how I'd feel if my little boy got losted and blackest to him, everything had come "Can't fool you, can I? It would be happy look come into the old man's live, though—now, honest! Come! right again; and he was too glad to funny if, after keeping an eye on you face, but there was nothing of it in 'Fess up, Billee, you don't know where you live, do you?"

"Why, yes I do," said Little Billee. "Awful funny," agreed Little Billee. and-chest protectors, my lad," he re- "It's in the big gray stone house with ognize him at once, and would know "But tell me, Mr. Santa Claus, what plied. "Sometimes we have bitter the iron fence in front of it, near the

wouldn't do for Santa Claus to come Santa Claus nervously. "Anybody "Pretty good-pretty good," Santa down with the sneezes at Christmas could say he lived in a gray stone he knew was that it was a big gray Claus answered, turning in his steps time, you know-no, siree! This house with a fence around it, near the stone house on a long street some- and walking back again along the path board in front keeps the wind off my park; but you don't know what street where, with a tall iron railing in front he had just traveled-which Little chest, and the one behind keeps me it's on, nor the number, either. I'll Billee thought was rather a strange from getting rheumatism in my back. bet fourteen wooden giraffes against

> "No, I don't," said Little Billee (Continued on page 558).



"Howdidoo, Mr. Santa Claus."

"My what?" asked Little Billee.

The answer was a ringing peal of

"As if you didn't know that!" cried asked.

I didn't know where you lived, eh?"

"Howdidoo, Mr. Santa Claus?" thing to do. "You've got more white They are a great protection against a monker on a stick!" said Little Billee, as the other's hand marks than black ones—a good many the weather." unconsciously tightened over his own. more—a hundred and fifty times as

"What might your ad- and the naughty boys we call caddies, and there you are."

Just then Little Billee noticed for Santa Claus was wearing.

boards for, Mr. Santa Claus?"

"Oh, those are my new-fangled back-

"I'll have to tell my papa about

Winston of the Prairie

BY HAROLD BINDLOSS.

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Synopsis of Previous Chapters.

Farmer Winston, a bankrupt homesteader, accepts a proposal to simulate Lance Courthorne, an adventurer. Courthorne and his pals struggle with the police, kill Trooper Shannon, who leaves evidence pointing to Winston as the murderer, and smuggle through some illegal distillery products. To Silverdale, a settlement founded by Colonel Barrington, Maud Barrington, his niece and ward, has just returned from Montreal. The Colonel is worried over a fall in wheat prices, and also over the coming of Lance Courthorne, Miss Barrington's cousin, to Silverdale to claim a share of his father's estate. Maud Barrington learns more of her cousin's unsavory past. Winston, in the meantime, pushes on to Montana, is held for Courthorne by an officer, who discloses to him the belief that Winston. Complying with instructions in the letter, he meets and confers with a lawyer respecting Courthorne's inheritance at Silverdale, visits the colony. Some of his actions fail to tally with Courthorne's reputation. He wins the good will of Dane, the Colonel's adviser. The real Courthorne, supposed to have been drowned during the smuggling, now reappears in Montana, meets Ailly Blake, whose life he had blighted and who is now engaged to one Potter, rancher. Winston, returning from Winnipeg, finds Miss Barrington at one MacDonald's, and in an attempt to reach Silverdale they are caught in a blizzard. The night is spent at a lonely building and the following day they reach home through the heroic efforts of Winston. Miss Barrington promises Winston to sow her land to wheat the following spring. He in due season, begins planting operations in spite of the Colonel's adverse criticism. Miss Barrington commends Winston for his successful efforts to break the gambling habits of Ferris, a young Englishman.

CHAPTER XIII .- (Concluded).

ently under Barrington's supervision, en now. that he opened his mouth.

night, and if you're wise you'll let that his gaze steadily felt his pulses throb. isfied. As it happened, he was shortkind of thing alone in future," said Winston quietly.

The lad stepped down from the waglike you."

forgetfulness, "I'm not going to offend in that fashion again, and you can go out of the pit tonight because a lady, before you turn in, trooper?" who apparently takes a quite unwar-

Ferris stared up at him, and his face showed up almost livid through miles to ride tomorrow." the luminous night.

the Lord, I'll make you sorry for this."

forward Dane looked at him. "I didn't know that before," he said.

"Well," said Winston dryly, "if I hadn't lost my temper with the lad, you wouldn't have known now."

of it. Our engaging friend made himself the laughing stock of the colony by favoring Maud Barrington with his attentions when he came out. In fact, were not appreciated. I'd keep my land and money, you see."

way," said Winston grimly.

homestead, where Dane was to stay ed play." the night, and when they went in a then holding himself in hand by a right." strenuous effort, he moved forward seen the lad who wore it, once or had advantages."

twice before, at an outpost six hun- that they had been victimized, and Winston laughed, but made no an- dred miles away across the prairie. He swer, and their companion said noth- knew the risk he took was great, but what had happened might never have ing at all. Either the night wind had it was evident to him that if his idena drowsy effect on him, or he was tity escaped detection at first sight, younger men ridden in to the railroad moodily resentful, for it was not until use would do the rest, and while he Winston pulled up before the home- had worn a short-pointed beard on the versation overheard led him to susstead whose lands he farmed indiffer- western prairie, he was cleanly shav- pect that something unusual had tak-

"You have got off very cheaply to- staring at him, and Winston returning to Silverdale with his curiosity unsatyou here?" he said.

"Homestead visitation, sir," said the and came across Ferris there. on and then stood still. "I resent ad- lad, who had a pleasant English voice. vice from you as much as I do your "Mr. Courthorne, I presume—accept story at the settlement," he said. -uncalled for insolence an hour or my regrets if I stared at you-but for "There was trouble of some kind in "Well," said Winston, stung into late when I rode in, and your people dale was concerned in it." were kind enough to put me up."

to the devil in the way that most en for another man before. Would were a good many of the Silverdale pleases you. In fact, I only pulled you you like anything to dring, or a smoke farmers with a few of their wives and

ranted interest in you, asked me to." sign my docket to show I've been Macdonald at the piano in the long

Winston did as he was asked, and ed the final chords. "She asked you to!" he said. "By the trooper withdrew, while when they sat down to a last cigar it seem- was there that night." Winston said nothing, but shook the ed to Dane that his companion's face reins, and when the wagon lurched was graver than usual.

"Did you notice the lad's astonish to sign to the first speaker that it was ment when you came in?" he asked. not desirable to pursue the topic. "He looked very much as if he had seen a ghost."

Winston laughed. "I believe he fan- said. cied he had. There was a man in the considered resembled me. In reality, I not understand him. "You may just was by no means like him, and he's as well tell us now as later, because dead now."

"Likenesses are curious things, and he said. I fancy the lady in desperation had to it's stranger still how folks alter," turn her uncle loose on him before he said Dane. "Now, they've a photo- ers had gathered about them, and Mrs. ture. "I want you to supply the most could be made to understand that they graph at Barrington's of you as a boy, Macdonald, who had joined the group, important part," she said, and the lad, eyes on him, Courthorne, for the little the face, nobody with any discern- something interesting going on. Mayn't the glance she cast upon him. "You beast has shown himself abominably ment would have fancied that lad I know, Gordon?" vindictive occasionally, though I have would grow into a man like you. Still, a notion he's scarcely to be held ac- that's of no great moment, and I want had visited the settlement. "You shall two men from Silverdale directly concountable. It's a case of too pure a to know just how you spotted the know as much as I do, though that is cerned in the affair, and one of them strain and consanguinity. Two branch- gambler. I had a tolerably expensive little, and if it excites your curiosity, at no slight risk to himself did a very es of the family-marriage between tuition in most games of chance in my you can ask Ferris for the rest. He generous thing. "It will be my heel if he gets in my completely what I was taught then, of his story by being mysterious. single stake upon a card, or do any-It was late when they reached his nothing that led me to suspect crook- matic happening of the kind our there for the purpose of gambling that

"Well," said Dane dryly, "you don't and stood where the light of a lamp need your nerves toned up. With only

a curious smile.

Dane stood up and flung his cigar me occasionally. I don't ask your behind him. confidence until you are ready to give it to me-but if ever you want any- out of it, Ferris?" said somebody. body to stand behind you in a diffiwilling."

other hour.

CHAPTER XIV. A Fair Advocate.

Thanks to the fashion in which the hotel keeper managed the affair, the gambler left the settlement without personal injury, but very little richer than when he entered it. The rest of those who were present at his meeting with Winston were also not desirous that their friends should know because Dane was discreet, news of reached Silverdale had not one of the a few days later. Odd scraps of conen place, but as nobody seemed to be The lad stood quite still a moment willing to supply details, he returned "Well, trooper, what has brought ly afterwards present at a gathering of his neighbors at Macdonald's farm

"I heard fragments of a curious two ago," he said. "To lie low until a moment you reminded me of a man which a professional gambler figured honest men got used to him would be I knew. They've changed us round last Saturday night, and though noconsiderably more becoming to a man lately, and I'm from the Alberta squad- body seemed to want to talk about it, ron just sent into this district. It was I surmised that somebody from Silver-

He had perhaps spoken a trifle more Winston laughed. "I have been tak- loudly than he had intended, and there daughters whose attention was not "No, sir," said the lad. "If you'll wholly confined to the efforts of Mrs. here, I'll get some sleep. I've sixty room just then. In any case a voice broke through the silence that follow-

"Ferris could tell us if he liked. He

Ferris, who had cause for doing so, looked uncomfortable, and endeavored

"I have been in tolerably often of late. Had things to attend to," he

The other man was, however, posyou never kept a secret in your life,"

In the meantime, several of the oth-

callow days, and haven't forgotten is only anxious to enhance the value Courthorne. Did you see him lay a but though I watched the game, I saw Well, there was a more or less dra- thing that led you to suppose he was friends in the old country unwarrant- evening?" Winston laughed. "I watched his ably fancy is typical of the west, in the big log-walled hall. For a moment me to try a bluff, but it was not until ago. Cards, pistols, a professional scarcely audible. Winston's heart almost stood still, and he turned the table over I knew I was gambler, and the unmasking of foul play, don't you know. Somebody from want you to tell us what you did see Silverdale played the leading role."

"How interesting!" said a young every day before I came out to the icily disdainful.

"I have played a more risky one, prairie. Please tell us, Mr. Ferris! but I don't know that I have cause to One would like to find there is just a be very grateful for anything I ac- trace of reality in our picturesque fanquired in the past," said Winston with cies of debonair desperadoes and bighatted cavaliers."

There was a curious expression in "It's time I was asleep," he Ferris's face, but as he glanced said. "Still, since our talk has turned around at the rest, who were regardin this direction, I want to tell you ing him expectantly, he did not obthat, as you have doubtless seen, there serve that Maud Barrington and her is something about you that puzzles aunt had just come in and stood close

"Can't you see there's no getting

"Well," said the lad in desperation, culty, you'll find me rather more than "I can only admit that Gordon is right. There was foul play and a pistol He went out, and Winston sat still, drawn, but I'm sorry that I can't add very grave in face, for at least an- anything further. In fact, it wouldn't be quite fair of me."

"But the man from Silverdale?" asked Mrs. Macdonald.

"I'm afraid," said Ferris, with the air of one shielding a friend, "I can't tell you anything about him."

"I know Mr. Courthorne drove in that night," said the young English girl, who was not endowed with very much discretion.

'Courthorne," said one of the bystanders, and there was a momentary silence that was very expressive. "Was he concerned in what took place, Ferris?"

"Yes," said the lad with apparent reluctance. "Mrs. Macdonald, you will remember that they dragged it out of me, but I will tell you nothing more whatever."

"It seems to me you have told us quite sufficient and perhaps a trifle too much," said somebody.

There was a curious silence. All of those present were more or less acquainted with Courthorne's past history, and the suggestion of foul play coupled with the mention of a professional gambler had been significant. Ferris, while committing himself in no way, had certainly said sufficient. Then there was a sudden turning of heads as a young woman moved quietly into the midst of the group. She was ominously calm, but she stood very straight, and there was a little hard glitter in her eyes, which reminded one or two of the men who noticed it of those of Colonel Barrington. The fingers of one hand were also closed at her side.

"I overheard you telling a story, Ferris, but you have a bad memory and left rather too much out," she

"They compelled me to tell them what I did, Miss Barrington," said the lad, who winced beneath her gaze. "Now there is really nothing to be gained by going any further into the affair. Shall I play something for you Mrs. Macdonald?"

He turned as he spoke and would have edged away, but that one of the Dane smiled. "You miss the point district he came from who some folks sessed by a mischievous spirit or did men at a glance from the girl laid a hand on his shoulder.

"Don't be in a hurry, Ferris. fancy Miss Barrington has something more to tell you," he said dryly.

The girl thanked him with a gesand while there is a resemblance in smiled as she said, "There is evidently saying nothing, changed color under do not seem willing. Then perhaps I "Of course," said the man who had better do it for you. There were That one was Mr.

"No," said the lad, seeing she knew youthful figure in uniform rose up in face, and what I saw there decided the saloon of the settlement not long the truth, and his hoarse voice was

"Then," said Maud Barrington, "I him do."

Ferris said nothing, and though the did not shine quite fully upon him. He a suspicion to go upon, it was a toler- English girl. "Now, I used to fancy girl laughed a little as she glanced at knew that uniform, and he had also ably risky game. Still, of course, you something of that kind happened here the wondering group, her voice was

"Well," she said, "I will tell you. signs of suppressed curiosity about You saw him question a professional some of the rest. When he had greetgambler's play to save a man who had ed his hostess he turned to one of the no claim on him, from ruin, and, with men. only one comrade to back him, drive the field. He had, you admit, no in to forget it as soon as you can." terest of any kind in the game."

Maud Barrington turned from him to her hostess as she answered, "That curious if it does not concern me." will suffice, in the meanwhile, until I her, if she would care to try it."

while presently Winston came in.

arduous day was over and those who a better advocate." anxiously as he came in, and his eyes er moved away. brightened as they rested on Maud "That's a probability I never countthere was a trifle more color than us- but the Colonel." ual in the girl's pale-tinted face, and

"It seems to me you are either trythe swindler, who had a pistol, from ing not to see something, Gordon, or

Gordon laughed a little. "You are Ferris had grown crimson again, and not often mistaken, Courthorne. That the veins on his forehead showed is precisely what we are doing. I preswollen high. "No," he said almost sume you haven't heard what occurred here an hour ago?"

"No!" said Winston. "I'm not very

Gordon looked at him steadily. "I can decide whether it is desirable to fancy it does. You see that young fool make known the rest of the tale. I Ferris was suggesting that you had brought the new song Evelyn wanted, been mixed up in something not very Mrs. Macdonald, and I will play it for creditable at the settlement lately. As it happened. Maud Barrington over-She moved away with the elder heard him and made him retreat belady, and left the rest astonished to fore the company. She did it effecwonder what had become of Ferris, tively, and if it had been anyone else, who was seen no more that evening, the scene would have been almost theatrical. Still, you know nothing His face was a trifle weary, for he seems out of place when it comes had toiled since the sun rose above from the Colonel's niece. Nor if you the rim of the prairie and when the had heard her would you have wanted

worked for him were glad to rest For a moment the bronze deepened their aching limbs, had driven two in Winston's forehead, and there was leagues to Macdonald's. Why he had a gleam in his eyes, but though it done so, he was not willing to admit, passed as rapidly as it came, Gordon but he glanced around the long room had seen it and smiled when the farm-

Barrington. They were, however, ob- ed on," he thought. "Still, I fancy if servant eyes, and he noticed that it came about, it would suit everybody

(Continued next week).

Old Games to Enliven Holiday Evenings.

exhausted, some of the old games, sim- the bird-catcher. ple but always charming, may be inthe fact that all may take part.

ed to construct a sentence, the object does not know who will answer. being to make them as absurd as possible.

probably be somewhat disconcerted sure her that your prophecy is correct. when he finds the joke is on him.

The bird-catcher is a noisy game RENEW NOW! Don't wait until the whole evening. Have the players arranged in a circle, with the hands of tions a day the last two weeks in each placed on their knees, all except one, who acts as the bird-catcher. January. Come early and avoid the Each one is given a name, which may rush-Please.

T is sometimes a difficult matter to be that of any bird except the owl. provide entertainment for the holi- The catcher then tells a story about day guests. This is often so in birds and each time one is mentioned the country. As the guests often re- which represents the name given a main several days, there is the ques- player, that player must imitate the tion of providing something for each cry of the bird as best he can. When evening. The days may be filled with the owl is mentioned all the players sleigh riding, skating, hunting or any must put their hands behind their other of the pleasures the holiday sea- chairs and keep them there until some son affords, but the evenings are long other bird is mentioned. When the and provision must be made for them. catcher says "all the birds," each one Acting of a simple character may must give his respective cry. The interest the children, or charades, player failing to respond to his name music and recitations will fill up an or to put his hands behind his chair evening. After these have all been as indicated must take his place as

There is nothing better than the old dulged. The charm of these lies in game of "Questions' for a quiet evening. This will appeal to the staid and One of the best of these is the cir- quiet guests. Two sets of plain cards cle of mystery. One of the players are numbered, one set being a dupliwhispers to his right hand neighbor a cate of the other. One set is shuffled word of a certain part of speech. Thus and dealt out to the company and the A whispers to B an article, B to C a other laid face down on the table. noun, C to D an adverb, D to E a pre- Then each player in turn draws a card position, E to F a conjunction, F to G and shows the number, asking a pera pronoun, G to H a verb, and H to I sonal question of the person having an interjection. The words are all col- that number. Questions and answers lected after each member of the circle are expected to be given quickly. The has added a word in the order named fun comes in in the saucy questions and of the part of speech required. and answers given, also in the fact From these words each one is requir- that the player asking the question

Here is a mystifier which will afford considerable amusement to wind up A joke which may be worked by one an evening. Ask one of the ladies of who is "wise," to the amusement of the party to write on a piece of paper the company and the confusion of the the names of the three gentlemen she victim, is done by placing several ob- whom she most admires, and then to jects on the floor, such as a book, a burn the paper, handing you the ashfootstool, a folded newspaper and oth- es. Rub these on the back of your er small articles. Then bring in the hand and the name of the lady's fuhim the objects and tell ture husband will appear written him he is to be blindfolded and asked thereon. To accomplish this seemingto do certain things with them. While ly impossible thing, select some name he is in another room being prepared, previously and write it with milk on remove the objects, then lead him in on the back of your hand, drying it and tell him to jump over each of before the fire until the writing enthe articles just shown him. His tirely disappears. Should the name efforts to do so will prove highly en-vou select prove to be different from tertaining to the guests and he will anyone she has written, you can as-





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A CHRISTMAS EXERCISE.

BY MILDRED M. NORTH.

(All).
Sing a song of Christmas,
Sing it loud and clear,
Sing a song of Christmas,
Best of all the year.

(First child, holding branch of ever-I am the hemlock

Drest in dark green, make the best Christmas tree That ever was seen.

(Second child, holding branch of holly) I am the holly In bright green and red Blooming at Christmas When flowers are dead.

(Sixth child, holding a big black stocking).

I'm a big stocking
In neat dress of black
That Santa Claus fills
When he comes with his pack.

(All).
We are the children
Who are waiting tonight
To look at their stockings
As soon as it's light.

A NOVEL CHRISTMAS TREE.

BY W. B. STODDARD.

Occasionally, if only for a change, one would like a substitute for the conventional Christmas tree of spruce or hemlock. Especially is this true when there are no small childrenwho, more conservative than their elders, will brook no change in what, to their small minds, is connected inseparably with the day. For those, then, who desire a charming novelty, a plum tree in full blossom is suggested. Such a one, exhibited in the windows of a Broadway store recently, evoked exclamations of delight from all.

A stockily built bare branch, set upright in a tub covered with green crepe paper, was converted into a thing of beauty by being covered with hundreds of small artificial plum blossoms. These can be purchased at a small cost from any dealer in artificial flowers, or manufactured for almost nothing from paper. From the topmost boughs two life-like monkeysthe latest successor to the Teddy bear in childish favor-disported themselves. Owing to the more horizontal branches of the deciduous tree, gifts may the more readily be placed on them, particularly scarfs, veils, and various articles of dress accessories. Little swings can be attached to the lower branches in which are seated dolls, Teddy bears, or monkeys. Owing to the clusters of blossoms with which the tree is covered no other decorations are necessary. Of course, any other flower could be selected—apple, peach or cherry, but owing to the plum blossoms being white it blends and harmonizes more readily with gifts of various hues that would that of any tinted flower.

down into his pocket and trought the shining silver piece to light. "You can have it if you want it."

"I uses Santa Claus is tired, papa," said Little Billee, snuggling up closely to the old fellow and taking the proffered coin. "We'll start home right away; only come in here first while I telephone to Santaville, telling the folks where I am."

He led the little fellow into a public telephone station, where he eagerdless to the plum blossoms being white it sion of the telephone-booth, Santaville, papa, way, so that we may take him back claus sent the gladdest of all Christic told you about these boards he wears. He has 'em to keep the wind off, and they're fine, papa!" Little Billee of the two sign-boards which the selvent of the pointed to the two sign-boards which the selvent of the pointed to the two sign-boards which the selvent of the pointed to the two sign-boards which the selvent of the pointed to the two sign-boards which the selvent of the pointed to the two sign-boards which the selvent of the pointed to the two sign-boards which the selvent of the profered coin. "We'll like a child.

"I uses Santa Claus sent Like a child.

"I uses Santa Claus child.

"Yes, my son," said Little Billee, snuggling up closely to the old fellow and taking the profered coin. "We'll start home right away; only come in the plant have send with his about the papa," said Little Billee, the old fellow and taking the pointed to t selves. Owing to the more horizontal that of any tinted flower.

SANTA CLAUS AND LITTLE BILLEE.

(Continued from page 555). our ortymobile. It's-'N. Y."

"Fine!" laughed Santa Claus. you really were lost, it would be a The boy vainly endeavored to pergreat help to know that; but not be- suade his companion to "come in and ing lost, as you ain't, why, of course, meet mama." we can get along without it. It's queer you don't know your last name, sadly, "I must hurry back. You see, though '

rison."

it right the very first time, didn't you? have you been with this boy?" I really didn' think you knew. But I don't believe you know where your Billee, with more courage than he had makes all those nice cakes and cookies vou eat."

(Third child, holding a large peanut).

I am a peanut
Drest in light yellow
Some people think me
A hard-shelled old fellow.

(Fourth child, holding large stick candy).

I am the candy stick
Striped red and white,
Children all like me,
I'm soon "out of sight."

I am the popcorn
My dress is like snow,
I find good friends
Wherever I go.

(Sixth child, holding a big black

Third child, holding a large peanut).

Billee began to laugh.

"You can't fool me, Mr. Santa
Claus," he said. "I know my papa don't keep a bake-shop just as well as you do. My papa owns a bank."

"Splendid! Made of tin, I suppose, with a nice little hole at the top to drop pennies into?" said Santa Claus.

"No, it ain't either!" retorted Little
Billee. "It's made of stone, and has more than a million windows in it. I went down there with my mama to papa's office the other day, so I guess I ought to know."

"Well, I should say so," said Santa
Claus. "Nobody better. By the way.

"You see, sir," said Little Billee's father; "let him alone—I haven't entered any complaint against this man."

"Bullee's father; "let him alone—I haven't entered any complaint against this man."

"Bullee's father; "let him alone—I haven't entered any complaint against this man."

"But you want to look out for these fellers, Mr. Harrison," returned the officer. "First thing you know there with they makin' a trade of this sort of thing."

"Put you want to look out for these fellers, Mr. Harrison," returned the officer. "First thing you know there with with my mama to papa's office the other day, so I guess I ought to know."

"Well, I should say so," said Santa
Claus. "Nobody better. By the way."

"You see, sir," said Little Billee, "only he pretended he didn't, just to see if I know my papa abake-shop just as well as the won't entered any complaint against this man."

"But you want to look out for these fellers, Mr. Harrison," returned the officer. "I'm no grafter!" retorted Little Billee. "I'm no grafter!" retorted Little Claus indignantly. "I found the little chap wanderin

up to the house, but we can go in the cars—hum! I don't know whether we can or not, come to think of it. Ah, do you happen to have ten cents in a better one," said the banker. your pocket?" Santa Claus added with an embarrassed air. "You see, I've left my pocketbook in the sleigh with hadn't," he added fiercely, "do you my toy-pack; and besides, mine is suppose I'd be doin' this?" He point-only toy-money, and they won't take

mas messages over the wire to two distracted parents:

"I have found your boy wandering in the street. He is safe, and I will bring him home right away."

Fifteen minutes later there might have been seen the strange spectacle of a foot-sore Santa Claus leading a sleepy little boy up Fifth Avenue to a cross-street, which shall be nameless. The boy vainly endeavored to persuade his companion to "come in and meet mama."

"No, Billee," the old man replied sadly, "I must hurry back. You see, kiddie, this is my busy day. Besides, I never go into a house except through

He has em to keep the wind off, and they say it is a very beinted to the two sign-boards which of they in the word off, and they say it is a very beinted to the two sign-boards which salle and a says he uses 'em on cold travel. I've been too busy all my life to go abroad."

"Abroad!" roared Little Billee, grinning at John's utterly absurd mistake. "Why, Twenty-third street ain't the boards. "It's up-town—near—oh, near a Good Christmas Dinner for a Quarter, Go to Smithers's Cafe."

"Papa's trying to fool me, just as you did when you pretended not to know where I lived, Santa Claus," he said, looking up into the old fellow's spend my vacation there!"

From which Little Billee concluded that his suspicion that John might be hastly, "He's only joking."

"Oh, no, indeed, I shouldn't have Copyright, The Frank A. Munsey Co. frankly; "but I know the number of of a foot-sore Santa Claus leading a "If cross-street, which shall be nameless.

"I do, too, know my last name!" I never go into a house except through

blurted Little Billee. "It's Billee. That's the last one they gave me, anyhow."

Santa Claus reflected for a moment, eyeing the child anxiously.

"I don't believe you even know your papa's name," he said.

"Yes, I do," said Little Billee, indignantly. "His name is Mr. Harrison."

the chimney. I wouldn't know how to smiling through his tears.

"I've been joking, have I?" said Littlee Billee's papa, and his brothers and sisters, and the butler and the housemaids, and two or three policemen, were said. Little Billee proudly. "I couldn't read it myself, but he told me what it and two or three policemen, were said. He has it printed there so that the misses saying it to anybody they'll know he means it just the same."

"Aba!" said one of the relies self.

cried Santa Claus gleefully. "You got "We've landed you, all right! Where

"You see, sir," said the officer, "it on't do him any harm to let him ol his heels—"

"Well, I should say so," said Santa Knew."

Claus. "Nobody better. By the way, Billee, what does your mama call your papa? 'Billee,' like you?" he added. "Oh, no, indeed," returned Little Billee. "She calls him 'papa,' except once in a while when he's going away, and then she says, 'Good-by, Tom.'"

"Fine again!" said Canta Claus, blowing upon his fingers, for, now that the sun had completely disappeared over in the west, it was getting very cold. "Thomas Harrison, banker," he muttered to himself. "What, with the telephone-book and the city directory, I guess we can find our way home with Little Billee."

"Do you think we can go now, Mr. Santa Claus?" asked Little Billee, for the cold was beginning to cut through his little coat, and the sandman had started to scatter the sleepy-seeds all around.

"Yes, sirree!" returned Santa Claus promptly. "Right away off now instantly at once! I'm afraid I can't get my reindeer here in time to take us up to the house, but we can go in the cars—hum! I don't know whether we lose my job if I do."

"You see, sir," said the officer, "it won't do him any harm to let him you'ld him any harm to let nim olot him any harm to let nim out him any harm to let nim you'ld him any harm to let nim out him the fill parm to let nim out him, if it is far better that he should warm them, officer," said Mr. Harrison won'ld when, deficer, "it is far better that he should him, he added, turning to Santa Claus with a grateful smile. "It is far better that he should him, he and that here. Come in, my man, he added, turning to Santa Claus with a grateful smile. "It is far better that he should him, he and that here. Come in, my man, he added, turning to Santa Claus

my toy-pack; and besides, mine is only toy-money, and they won't take that on the cars."

"I got twenty-fi' cents," said Little Billee proudly, as he dug his way down into his pocket and brought the shining silver piece to light. "You can have it if you want it."

suppose I'd be doin' this?" He pointed the pointed boards and shuddered. "It's him as has kept me from the river!" he muttered hoarsely; and then this dispenser of happiness to so many millions of people all the world over sank into a chair, and, covering his face with his hands, wept like a child.

"I guess Santa Claus is tired, name" said Little Billee spruggling we

same

ignantly. "His name is Mr. Harson."

"Aha!" said one of the police, seizming Santa Claus gleefully. "You got right the very first time, didn't you? really didn't think you knew. But I on't believe you know where your apa keeps his bake-shop, where he takes all those nice cakes and cookers you eat."

"You let him alone!" cried Little billee began to laugh.

"You can't fool me, Mr. Santa laus," he said. "I know my papa on't keep a bake-shop just as well as you do. My papa owns a bank."

"Splendid! Made of tin, I suppose, tith a nice little hole at the top to rop pennies into?" said Santa Claus.

"No, it ain't either!" retorted Little lilee. "It's made of stone, and has over the stant and the top to the stant and the wandering along the street, and are than a million windows in it. I is son as I was able to locate where the Billee's papa, grasping the old Little billee, said one of the police, seiz-ting Santa Claus and Little billee, with more courage than he had over expected to show in the presence of a policeman. "He's a friend of mine."

"That's right, officer," said Little billee had the satisfaction of acting as host to Santa Claus at a good, luscious dinner, which Santa Claus must have enjoyed very much, because, when explaining whe you ten million apologies! I haven't believed in you for many a long year; but now, sir, I take it all back. You do exist, and, by the great horn spool, you are the real thing!"

Little Billee had the satisfaction of acting as host to Santa Claus at a good, luscious dinner, which Santa Claus and Little billee's father; "let him alone—I older had been so busy all day the makin' a trade of this sort these fellers, Mr. Harrison," returned the officer. "First thing you know the million apologies! I haven't believed in you for many a long year; but now, sir, I take it all back. You do exist, and, by the great horn spool, you are the real thing!"

"That's right, officer," said Little billee a whe explaining why

house together.

Christmas morning dawned, and Little Billee awoke from wonderful dreams of rich gifts, and of extraordinary adventures with his new-found friend, to find the reality quite as splendid as the dream things. Later, what was his delight when a small boy, not much older than himself—a pale, thin, but playful little fellow—arrived at the house to spend the day with him, bringing with him a letter from Santa Claus himself! This was what the letter said:

"Dear Little Billee:
"You must not tell anybody except your papa and your mama, but the little boy who brings you this letter is my little boy, and I am going to let you have him for a playfellow for Christmas Day. Treat him kindly for his papa's sake, and if you think his papa is worth loving tell him so. Do not forget me, Little Billee. I shall see you often in the future, but I doubt if you will see me. I am not going to return to Twenty-third street again, but shall continue my work in the Land of Yule, in the Palace of Good-Will, whose beautiful windows look out upon the homes of all good children.
"Good-by, Little Billee, and the hap-

children.

"Good-by, Little Billee, and the happiest of happy Christmases to you and all of yours.

Affectionately,

"Santa Claus."

"Santa Claus."

When Little Billee's mama read this to him that Christmas morning a stray little tear ran down her cheek and fell upon Little Billee's hand.

"Why, what are you crying for, mama?" he asked.

"With happiness, my dear little son," his mother answered. "I was afraid yesterday that I might have lost my little boy forever, but now—"

"You have an extra one thrown in

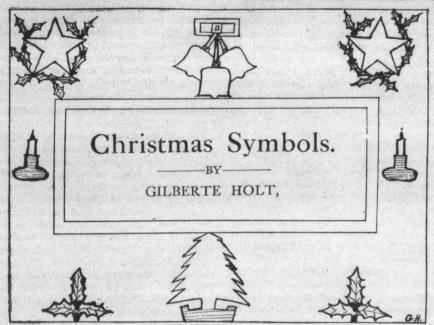
lost my little boy forever, but now—"
"You have an extra one thrown in for Christmas, haven't you?" said Little Billee, taking his new playmate by the hand. The visitor smiled back at him with a smile so sweet that anybody might have guessed that he was the son of Santa Claus.

As for the latter, Little Billee has not seen him again, but down at his father's bank there is a new messenger, named John, who has a voice so like Santa Claus's voice that whenever Little Billee goes down there in the motor to ride home at night with his papa, he runs into the bank and has a long talk with him, just for the pleasure of pretending that it is Santa Claus he is talking to. Indeed, the voice is so like that once a sudden and strange idea flashed across Little Billee's mind.

"Have you ever been on Twenty-third street John?" he calced

head of him,
Henry and
tround right
the him back
have to lend
the wind off,
"I haven't
is he wears.
ind off, and
title Billee 'Meller
argainst the you know, I don't get much chance to





HRISTMAS in its outer manifes- God having passed through the vari-

glamour to this season of the year, all childhood, be it of years or spirit, the gods. tinsel splendors of the Xmas tree, the merry-makings, are all accepted at their face value.

But each and every ornament upon Even Santa Claus, the jovial of the return of life in vegetation. saint of childhood, the giver of matevarious nations make it possible to season, even as we do now.

back of beyond."

lost in the myths and folk-lore of an- this guidance for help. tiquity.

tation belong essentially to chil- ous signs of the Zodiac, about the dren and the child-hearted. To third week in the month, now called be joyous, unrestrainedly so, is recog- December, turned toward spring, the nized as the prerogative of childhood, dawning of new life. Ancient people, and so every land upon the globe joins like those of modern times, welcomed hands in making glad the children at a new start, a fresh beginning. At the same season, about December 19 to 22, To the little people the preparations that the northern races were worshipand decorations which lend delightful ping Baldur, in the southern part of appeared Thor would renew the oak his word, and worse still, duplicates the then known world, there was befocus upon the visit of Santa Claus ing held the Roman Saturnalia in honand the Xmas tree. In the eyes of or of the god Saturn, the father of all

The holly was dedicated to Saturn Yule-tide greens, the feastings and and is an emblem of goodwill. All the make the substitution of the fir-tree. boisterous. From earliest times this Roman shops were made beautiful with it and other seasonable greens, much in the same manner in which toms have a far richer, deeper signifi- also employed evergreens at this seathey are used today. Other nations cance than is caught in a cursory sur- son, they being regarded as prophetic real personage who through a large in song and story as to need but

Long ago, the same as now, when rial gifts, is but a symbol of the giver the heart rejoices, it called to other of all good. Like other symbols, this hearts to share its joy, and overflowone has been dwarfed and distorted ed in a spirit of universal fellowship. he happens to appear. by time, until it is hard to trace its In olden times the ancients exchangmeaning, but myths and legends of ed gifts as tokens of affection at this acteristics and colors its Xmas cele- early settlers along the James River.

Yuletide ceremonials are of such and ded the secular to the religious obt he children and brings them gifts, were the children of the race. But as cient date that the nearest approach servance of Xmas, to outdo the Greeks Sometimes this saint is a mere myth, the race grew older it developed an to stating the time and place of their and Romans in their pagan celebra- like Kris Kringle, again a benevolent appreciation for more than mere exbeginning is to use the fairy-tale form- tion. But back even behind these person whose life history is so enternals, and looked behind the symbol ula and say "a long, long, long time ceremonials was a still earlier relig-shrouded in mystery that it is difficult to find that for which it stood. ago they began in the land that lies jous observance which belonged to to disentangle fact from fiction. The 2000 years which have elapsed tree played an important part. Among comes with the jingle of bell and the tinsel and seeming tawdry finery, is since the birth of the Christ, have every people of antiquity forest wor- pawing of tiny reindeer hoofs, pops in reality the open scroll upon which been filled with music, art and litera- ship was universal. As James Lane down the chimney and fills the wait- each ornament tells a story of a beture which have been so dominated by Allen says, "At the dawn of history ing stockings. the Christ thought of gentleness and began the adoration of the tree. Ev- In Belgium, however, he rides a The tree itself we must remember, is good will that most people are prone ery race was tethered to some ancespony and the children there place the altar of the god of our forest-to think that Xmas, with all its mystral tree." In some countries of the their wooden shoes upon the window dwelling forebears, and high at the top tery and symbolism began at His old world today we still find traces of sill filled with oats and hay for the we find the star. birth; but the Xmas time festival was this early faith, as in some parts of refreshment of the welcome visitor's This emblem, the star, is commonly old, when the Nazarene came to renew Germany, Switzerland, Russia and steed. it and add fresh meaning to its cele-Roumania and northern Italy when-Gen bration. The annual Yuletide festival ever a child is born a tree is planted masculine gender, but in Russia and totype of the one which guided the which was held at the winter solstice for it as its guardian in nature. Thus in some parts of Italy, notably Rome, magi to Bethlehem. But ancient Chal-(the time when the sun turned and protected the parents who have plant- the Xmas spirit is feminine. began what was termed his return ed the tree, feel that the spirit of najourney), has been celebrated for so ture within the tree will guide and Christ Child with a basket of toys on pearance periodically of a "wondermany ages that its inauguration is guard the child if he will appeal to her arm, who brings presents to the ously fair bright star, the emblem of

The word "Yule" is from the old tree worshiper. Did it not reach near- East in following the star came to est man had looked up to the heavens Scandanivian word meaning "wheel." er to heaven than aught else of which Babuska's cottage and invited her to and beheld the silent stars keeping In this connection it is thought to he knew? So he held it sacred and accompany them, but she said it was watch above their sacred trees and have reference to the turning or offered it gifts and homage. His god too cold and late for so old a woman thus the two became indissolubly as-

propitiatory offerings, later still sac- never-ending quest. rifices for atonement, and finally men hung gifts upon the trees, scarce Xmas presents to the little Italians in knowing why they did so.

filled with a more gentle doctrine business district. (learned from the teachings of the

tree, from this land also came the and drinking. Such quantities of food good St. Nicholas, sometimes identi- as the early Britons could consume! fied with Kris Kringle, Legend, how- It is almost beyond belief. Their wascompassion for neglected children be- mention. came after his death a regularly canonized saint, while Kriss Kringle is country the punchbowl, twined with merely a symbol with varying attrib- ground pine and mistletoe, is a time-

bration with a national tint. Each The early Christians in Rome ad- country has a Xmas Saint who visits ed with the symbols of life, so also,

The forest dweller was naturally a runs that the three wise men from the the very beginning of things the forwheeling of the chariot of the Sun dwelt in the tree and it thus became as she to leave her comfortable fire-sociated. When man began to make God, Baldur, the Beautiful. The Sun a shrine. (Continued on page 561).

The oak was the tree most widely her humble hospitality until morning. revered. To the Druids, the oak or But they declined, saying they must the god within it, was the Supreme hasten to bear their gifts to the child Giver; the mistletoe growing from the whom they were seeking. It seems oak branches and drawing its suste- that Babuska rather questioned the nance from them, typified man and appropriateness of their gifts for a thus symbolized the idea of man's de- baby and said she would start in the pendence upon God. The tree was morning with a basket of things a not only the shrine wherein God dwelt child would wish. But unfortunately but also an altar before which man she forgot to inquire the direction and worshipped. Therefore it was but when morning came she could not find natural that he should bring and hang the star. So each Xmas Eve she takes upon the tree his gifts, his free-will her basket and renews the search, goofferings and his sacrifices to his god. ing wherever a child lives and inquir-At first these gifts were made through ing if it be the Christ Child; but when the pure love of giving, an out-pour- she is told he is not there, she leaves ing of gratitude; then they became a gift in His name and continues her

> In Italy it is Befana who brings a pack on her back.

The oak was the Yuletide tree until All the Xmas saints are surrounded the eighth century, when Winfred and with mystery only to be seen and Prince Gregor of Germany substituted known through inner vision, save in the fir-tree. Tradition tells that pre- America. Here commercialism has vious to this time the oak had been over-ridden sentimental considerations an evergreen, but now its leaves had and we are forced to let our children withered and fallen. The Druid priests receive the rude shock of having a believed that Thor, the god of the oak, delightful mystery made into a comwas thus showing his displeasure and monplace. Santa Claus in the role of that nothing less than the sacrifice of an animated advertisement walks our a human being would turn aside the streets and promises gifts which nevgod's wrath. They believed that hu- er materialize. No wonder the Amerman blood spilled at the roots of the ican child questions the reality of the leaves without their falling. Winfred, himself many times throughout our

The whole wide world keeps Xmas Nazarene), through his eloquence was with feastings and merry-makings. In enabled to prevent the sacrifice and staid old England the fun is most As Germany gave us the real Xmas season was the occasion for eating

In the southern part of our own utes, colored by the locality in which honored institution. Probably this is but a modification of the cup of good Each nation has its individual char- cheer brought from England by the

As the children of today are pleas-

The Xmas tree of modern times as this season. In this early worship the In many lands, as in America, he it stands laden with all its array of lief and a people who had faith in it.

> supposed to belong exclusively to the Generally this jolly personage is of Christian era and to be used as a prodean records 4.000 or 5,000 years be-In Russia it is Babuska seeking the fore the birth of Christ, tell of the apsmall subjects of the Czar. The story peace, goodness and purity." Back in (Continued on page 561).

Christmas, 1914.

LMOST two thousand years ago, Christmas was ushered in by angels singing, "Peace on earth, good will to men." Two thousand years has man spent in struggling upward towards the ideal thus proclaimed, and some in the past decade have believed that universal peace was here to stay. But Christmas, 1914, promises to find us farther from the ideal than ever before. Half the civilized world is at war, and the Christmas peace song has given place to the thunder of cannon.

Christmas, 1914, will be remembered by most of us, not as a day of merriment and jollity, but as the Christmas when hearts the whole world round were saddened either by actual war with its attendants, sickness, poverty and death, or by the knowledge that on the other side of the world our brothers' lives and homes were being sacrificed, not for right, but for greed.

In America's country homes peace and plenty are the rule. There is more than the usual reason for rejoicing this Christmas, if we look not beyond our own doors. Nature smiled on America this year, and abundant crops has been the rule.

But while the farmers of the country have a-plenty, things have not been going so well with their nextdoor neighbors of the town. So near has Europe been brought to us by steamships and cables that there can be no upheaval over there which is not felt immediately in our business world. In town and city everyone you meet has a story to tell of how the war 3,000 miles away has hurt business here. Wholesale clothing houses cannot dispose of their output because thousands of men and women have not the money to buy new suits and thousands more are thriftily deciding to make old garments do, and keep their money against a possible lay-off. Everyone, from merchant to laborer, has felt the iron hand of war,

To be sure, the stores are stocked up with Christmas goods and toys, but you see few buying a thing unless it is something of necessity. Small boys are raving over engines and small girls over dolls, but father and mother are not growing enthusiastic. Instead, they are pondering on what may happen after New Years, and keeping a tight clutch on their purse strings while in the toy department.

Even the well-to-do, who are not bothered about tomorrow's money problem, are not giving recklessly. In- red icing is very appropriate and atstead of planning on expensive gifts for people who do not need them, they woman has decided that her old mink for this long ripening. furs will do very well for another winter, and the money she was going to merely as a guide to the young housepointed fox set will be spent instead in their entirety, but such dishes as on someone who is in want.

Christmas, 1914, promises to be a selected from each. day of mourning for many, but the American people are resolved to lighten Roast Turkey that mourning for as many as their Candied Yams money and forethought can reach. In the cities, you have only to step out. Spice Pudding side your doors to find someone who needs you. In the country the search would carry you farther.

If you can not find anyone who needs you in your neighborhood, help your brother in the city. In case it is the suffering European soldier you Roast Goose wish to help, write the consul of the country you wish to aid, be it Belgium, Germany, England or France, and send the letter to your nearest large city. He will tell you what his people need most and where and how to send your offering.

Christmas, 1914, will be a peculiar

day, but for most of us it will be a Celery peculiarly happy one. Instead of the dissatisfied feeling of a day selfishly spent in receiving, and in overeating, we will have the consciousness of having done our small part to relieve the universal suffering. DEBORAH.

THE YULETIDE FEAST.

BY MRS. JEFF. DAVIS.

As Christmas approaches, the housewife begins to think of the best way to fittingly celebrate this day of all the year. Whatever are the plans made let them be simple rather than elaborate, if in the latter one goes beyond strength and purse. Let us not forget that the first requisite in Christmas planning should be to keep the spirit in our hearts, bearing in mind that it is more blessed to give than to receive.

In serving the Christmas dinner simply and well, one need not adhere strictly to the old-time foods that have made their appearance on the American board since the time of the Pilgrim fathers, but let the innovations be simple elegance rather than elaborateness

The table should have a simple decoration, and red is the best color for the holidays. An effective centerpiece is secured by filling a chopping bowl with choice fruit and using holly, or other evergreen to wreath it. If no other fruit but red apples are to be had, these make an attractive centerpiece when heaped into a pretty basket or dish. A wreath of holly, or any evergreen vine can finish the base.

Most families adhere to the timehonored turkey as the principal meat dish, and this can not be improved upon. When other meat is required besides the bird, a baked ham will go nicely. Or an oyster pie or a chicken pie can replace this if preferred. One vegetable besides the potato is sufficient. Cranberries or some sort of jelly must be served with the meat course, and apples in some form.

Plum pudding is the standard dessert for Christmas, but many prefer American spice puddings.

A wise housewife will not serve ice cream, if this is on her menu, at the close of dinner, but will serve it later in the day with the Christmas cake. After eating a hearty dinner ending with a pudding or other dessert, very few people can ever enjoy the cream and cake, no matter how delicious these may be, but later in the day full justice can be done to them. A loaf cake iced with plain white icing, and bearing the word "Christmas" done in tractive.

As much preparation as possible of are sending food and clothes to the the dinner should be done before the impoverished Belgians, old linen, med- festive day. The pudding can be cookicated cotton and medical supplies to ed several days in advance and rehospitals, woolen mittens, socks and steamed. The ice cream can be cookunderclothes to the soldiers at the ed two days before and frozen the front, and coal and blankets to the next day, for by keeping it packed in Many an American ice and salt it will be all the better

The following menus are appended appeal to the individual taste may be

Crackers Oyster Milk Stew Apple Salad Cheese Straws Sauce Sterning Coffee

Toasted Crackers Pickles Celery Olives Salted Pecans Apple Sauce **Duchess Potatoes** Cream of Lima Beans

Cream of Tomato Soup.

Egg Sauce White Fruit Pudding Ice Cream Christmas Cake Coffee

Cream of Pea Soup Croutons

Pickles Roast Turkey Baked Ham Currant Jelly Apple Sauce Mashed Potatoes Squash Fruit Salad Cheese Straws Christmas Fruit Fudding Sterling Sauce

Ice Cream Fruit Cake Coffee

Christmas Recipes. Spice Pudding.

gether and pour into a greased mold, strung on fine wire. filling two-thirds full. Cover and steam two hours. Serve with any CHRISTMAS FLOWERS AS GIFTS. preferred sauce.

Fruit Salad.

Cut fresh or canned pineapple in sugar. Pour over syrup drained from pineapple.

Vanilla Ice Cream.

Two cups scalded milk, one egg, one tablespoon flour, pinch of salt, one cup sugar, one quart thin cream, two tablespoons vanilla. Mix flour, sugar, and salt, add egg slightly beaten, and milk gradually; cook over hot water for 20 minutes, stirring constantly at first; should custard have curdled appearance, it will disappear in freezing. When cool add cream and flavoring; strain and freeze.

Sterling Sauce.

ually add one cup of sifted brown that will hardly live a week. sugar, and cream until light; add and beat until light and foamy.

Boiled Ham.

fireless cooker so much the better, for weeks. The plants grow in good sandy skin, trim neatly, glaze with currant dry atmosphere of steam-heated liv-30 minutes in a steady oven.

Baked Goose.

wipe carefully inside and out. Boil summer planting time. three good-sized potatoes; when done Escalloped Onions goose, sew up the vent, put the goose tivation. pour in the bottom of the pan a pint grown for the holi into a gravy-boat.

Roast Turkey.

the inside. Rub the entire surface Then there is the aucuba japonica,

Salted Almonds with salt, and spread breast, legs and wings with one-third cup of butter. rubbed until creamy and mixed with one-fourth cup of flour, after turkey has been stuffed and trussed. Dredge bottom of pan with flour. Place in a hot oven, and when flour on turkey begins to brown, reduce heat, and baste every 15 minutes until turkey is cooked, which will require about three hours for a ten-pound turkey. Melt one-half cupful of butter and For basting use one-half cup butter add to it one cupful each of New Or- melted in one-half cup boiling water leans molasses and sweet milk; now and after this is used baste with fat beat in three cupfuls of flour in which in pan. Pour water in pan during the sift two teaspoonfuls of baking powder cooking as needed to prevent flour and one-half teaspoonful each of pul- from burning. Remove string and verized cloves, cinnamon, mace and skewers before serving. Garnish with nutmeg, one-half cupful sour cherry parsley, or celery tips, or curled celjuice or currant jelly; blend all to- ery and rings and discs of carrots

BY ADDIE FARRAR.

When in doubt as to what gift to one-quarter inch slices, remove hard give a friend, why not choose a growcenters, if fresh, sprinkle with pow- ing plant, a fragrant reminder of the dered sugar, set aside one hour in a affection you bear her? The desiracool place; drain, spread on serving bility of plants as Christmas gifts is dish, arranged in alternate layers with no longer questioned and particularly sliced bananas, and sliced oranges, for those who have a garden or a sprinkling each layer with powdered porch in the summer and a big livingroom in the winter. Individual taste, with a few hints from the florist, will make the selection an easy one and nawadays there is a good variety of winter plants to pick from, plants preeminent in their acceptability at the Yuletide.

Christmas plants must be chosen wisely, and for friends who have a limited space one must choose with regard to the flowers that will grow under the existing circumstances. In a greenhouse the heat, light and humidity can be regulated, in the average living-room it cannot. Therefore, Cream one-half cup of butter, grad- it is foolish to buy perishable varieties

Of course, the most popular of all three tablespoons of thick cream; plants today, for Christmas, is the when ready to serve heat in double Poinsetta, sometimes called the Christboiler; add brandy or vanilla to taste, mas rose. Its native home is along the northern borders of Mexico and it was first brought to this country by Select one well rounded but not too Dr. Joel Robert Poinsett, ambassador fat. Wash thoroughly in tepid water to Mexico in 1825, and later its briland scrub and scrape clean. Soak ov- liant scarlet blossoms attracted the er night in tepid water to which attention of florists, who soon began enough New Orleans molasses has to grow it exclusively for the Christbeen added to give a decided flavor. mas trade, its beauty soon making it In the morning cover the ham with popular. In greenhouses the poinsetta clear, cold water, bring slowly to the is easy of cultivation and its bright boiling point, then simmer from eight blossoms, which, correctly speaking, to ten hours, according to the size of are not blossoms, but clusters of the ham. If one be possessed of a leaves, remain in bloom for many then the ham needs no looking after soil and need a warm atmosphere, but When done let the ham unless one watches constantly and stand in the liquor in which it was takes much care of the plant it does cooked, until quite cold. Take out, not thrive any too well in the hot, jelly softened by heating, and stand ing-rooms. The blooms cease in February and the plant should then be dried off and turned upside down and Select a young goose, draw it, and placed in a warm place to wait until

Charming red berried plants that mash them, add to them an equal keep their color all the year around. persuade her husband to spend for a wife. They need not be carried out quantity of soft breadcrumbs, half a and therefore make pretty gifts, are can of mushrooms chopped fine, a tea- the new Jerusaleum cherry and the spoonful of onion juice, a saltspoonful ardisia crenulata, and a plant a foot of celery seed, or a half cupful of high can be had for 50 and 75 cents, chopped celery, and a rounding tea- The former can be grown into a large Cranberry Jelly spoonful of salt; mix, stuff into the and showy plant and well repays cul-

> in shape, stand it in a baking pan and The ardissen is a beautiful plant, of strained tomatoes; add a teaspoon- not common. It takes several years ful of salt and a tablespoonful of to bring it to suitable size as it is a chopped onion. Bake in a quick oven slow grower. The foliage resembles until the goose is thoroughly browned. our mountain laurel, but the arrange-Cool the oven, and bake slowly for ment of the leaves is much more beauone hour and a half, basting frequent- tiful. The well grown plant resem-Potato Stuffing ly. When done there should be suffi- bles a small tree and when it is a foot cient sauce in the bottom of the pan or a foot and a half high, it bears red to measure half a pint, which strain berries in clusters, in shape and size like holly berries. These berries remain hanging on the tree for a long Two or three days after the turkey time. The plant is pleasing for decorhas been hung, wipe it on the outside ation, either for the center of the tawith a damp cloth, and carefully wipe ble or for a corner of the living-room.

whose red and yellow foliage and MEASURE THE BABY CAREFULLY. crimson berries are highly decorative in the hall, living-room or library.

is the cyclamen with its rose, purple, urements. Some of the entries rered or white blossoms and rich foli- ceived show carelessness in this rehad for 50 cents, and others for \$1.50. instance being given as seven inches.

their delicate pink flowers almost possible as the information is importsmothered in the graceful bushiness, ant to the most efficient use of the These plants are especially adapted to score card. The gratifying number window boxes and living-rooms, and of entries already received is good eviby proper care and repotting in the dence that Michigan Farmers readers spring may be made to blossom for are justly proud of their babies. Any several years. They cost from 50 reader having a baby eligible to entry cents to \$1.50 a pot.

young ferns, just the thing for the Contest Editor, by January 1, 1915. dining-room table. Large ones sell from 75 cents up to \$5.00. Then there is a pretty combination of double red geraniums and ptyerus ferns, planted in low flower pots the shape and size of the ordinary fernery. The geraniums are in the center, the ferns set altar-tree. around them.

While the genista is a good Christmas plant, with its yellow flowers, still the bloom does not last long. Still, it is so beautiful, even in its fleeting loveliness that it makes a welcome gift. A medium-sized one accounts for the placing of candles can be had for 50 cents; others at upon the Xmas tree. When Winfred \$1.00 and \$2.00.

Rubber trees make good presents big living-room and big summer porch snow-covered branches twinkled very likes them because of their decorative brightly in the lights of the great hall effect in summer, as well as the until the warmth melted the snow, brightness they give the house in win- then the lady of the castle bethought ter. Rubber trees begin at 75 cents her of placing lighted candles upon each and climb in price. Two dollars the tree branches to restore their vanwill buy a fair-sized one. Another ished radiance. pretty plant is the dwarf Japanese tree, which resembles a small Christ- Bacchus in the worship of the vine, mas tree and is charming in the hall this was but a branch of forest worin winter and on the porch in the

Dwarf pot hydrangeas and hyacinths, along with the spirala japonica are represented as beating drums in lily, formerly Easter plants, now may be had at up-to-date florists at the Christmas time.

If you purchase an azalea which is a hardy plant and pays well for its care, get one that has more buds than opened flowers on it as the blooms for \$1.00.

The beautiful dwarf bush, the baby rambler, is popular, with its bright the first fruits of tree and vine as crimson flowers, and will bloom from free-will offerings. The gold and sil-Christmas to Christmas by keeping it in a sunny window during the winter, splendor of the modern Xmas tree, and in summer planting it in the ground. A two-year-old plant ought to silver chains which ancient men once be had for 75 cents and one that is a perpetual flame of blossom costs only

house. These plants are effective giver. One a plea for mercy, one a and are hardy. They must be kept glad pean of thankful praise to the damp but never wet, and can be kept Giver of all. out of doors all winter on the porch, as a bit of decoration on either side of the hall door.

marking, are all good. The araucaria and Good Will to Men." or Norfolk pines, and the corton, good for gifts, range in price from 50 cents up to almost as many dollars.

Be careful that your plants are well covered when delivering them, and do not water them just before going out into the cold, as they are then inclined to freeze. It is well to remember, when receiving Christmas plants, to place them immediately in a moderately warm place and water

In filling in the entry blank for our For one that is not expensive and prize baby contest, which appeared in can be grown in the window garden the issue of December 5, care should all winter, and later in the yard, there be taken to put down the exact meas-A small plant in bloom may be gard, the baby's circumference in one Other profuse bloomers through the All questions on the blank should be winter are the Lorraine begonia, with answered as fully and accurately as in this contest should fill out the For 50 cents one may get a pretty blank published in the issue of Decfancy fern dish filled with tender ember 5 and mail same to the Baby

CHRISTMAS SYMBOLS.

(Continued from page 559). crude ornaments, the star was among the first fashioned and hung upon the

The placing of candles upon trees, the shrines of gods, goes back to the fire-worshipers of Persia. At one time a fire or light burned perpetually at the foot of the sacred oak.

Germany has another legend which had substituted the fir tree for the oak, it was carried amid great rejoicand the suburban housewife, with her ing to a near-by baronial castle. Its

> The bell was used by the Priests of ship.

> The drum goes back to the time of Confucius. In Bhuddist sculpture boys worship of the sacred tree.

> The cornucopia, the primitive drinking cup, made from the ram's horn, was used to hold the libations to the God Bacchus, when they besought him for a plentiful yield from the vine.

The colored fruits, flowers and nuts are rather short-lived, although pro- are of greatest antiquity. Before man fuse. A good one ought to be bought had become skilled enough in handcraft to fashion gifts, he used those nature so freely bestowed, bringing ver tinsel which add so much to the are but symbols of the real gold and hung upon their trees.

These many gifts were brought before the altar and presented with Very cheerful in midwinter are the mingled feelings. In the beginning, evergreens in pots, which are set in each offering was but a separate note the hall or in the formal parts of the in the mute cry in the heart of the when well-shaped ones are chosen, petition for redemption, others the

These almost inaudible whispers which began at the dawn of time have risen slowly to articulate song. For foliage plants, the dacaenas, All these individual notes have bewith their variegated leaves of rich come merged in one mighty chorus green and creamy white, the pandan- which has at last broken forth in the us veitchi, with its long graceful, splendid anthems in which today the drooping leaves of white, edged with whole world joins in singing, "Glory green, or the sandere with its yellow to God in the Highest, On earth Peace





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From the Milk Dealer's Viewpoint.

distribution of milk.

THE city milk dealer has been cen- expense of rigid dairy inspection desured, blamed and looked upon manded by most cities, shrinkage due with an evil eye. Many product to evaporation, and the perishability ers thoroughly believe the city man is of the milk. Then, also, there comes exacting too large a portion of the re- in this connection the charge which tail price to pay for the collection and must be made for cold storage facilistribution of milk.

ties on the farm and in transit. A dealer, not matter what kind of com-success he said: "We have just mar-since problems are usually solved great factor which influences the modity he is dealing in, figures on a keted our fourth crop. At the outset easier and with greater satisfaction prices paid is surplus milk produced when both sides are well understood in the summer over that of the fall and the milk business is no exception \$200 in the treasury and over \$600 in by all concerned, it would seem a and winter. Producers do not appre- in this regard. duty to give here the defense of the clate the fact that the city can abcity dealer. What obligations are im- sorb only about so much milk and so posed upon him, what expenses must the dealers, in order to avoid having there are other points which must not is standardization of output. This he meet, what conditions are to be a lot of perishable milk on hand, cut overcome in getting this most import- the price, which lowers the offerings ant and most easily contaminated of and makes the dealer's risk less.



The Auto Truck is Proving itself Indispensable to the Farmer who takes his Products Directly to the City Market.

partment of Agriculture, presided ov- and winter. Fall-freshening cows are er the session, while Mr. Chas. Whit- most profitable in the long run. ing, a milk dealer of Boston, Mass., presented the dealer's side of the

The producing world is startled by the announcement that of the consumer's price, the milk dealer receives 58 per cent. This seems to be an altogether exorbitant price but when we take into account those risks which the dealer takes and the different drastic laws enforcing sanitary measterially lessened.

Production and Delivery.

of capital to go into dairying. Then demanded by city ordinances. the other item, that of delivering the milk to the city dealer, in view of the small earnings of the railroads at pres- the labors which must be charged up ent, and in view of the fact that they against this 58 per cent of the conare sueing for an increase in freight sumer's price which the dealer gets is rates, we cannot hope in any material the work of delivering and bill colreduction along carrier lines. Then, lecting. The work of delivering is added to these expenses, there is the laborious and requires early hours in

all our foods safely to the consumer? Farmers should get acquainted with At a recent gathering in Chicago the the fact that the most economical progeneral subject of milk marketing was duction of market milk and the best sible. under discussion. Hon. Chas. J. Brand, prices are obtained when the bulk of Chief of the Division of Markets, De- the offering is obtained during the fall

Handling and Bottling.

ducer when he condemns the milk scarcely feasible.-M. dealer does not take into account the many operations through which the GRAND TRAVERSE GROWERS OR- strongest co-operative bodies of fruit milk must go in order that it may be put on the market. In the city, the trains must be met and the milk carted to the plant and here it must go processes through which he must put through clarifying, bottling and capthis milk, this spread in prices is not ping processes. These all take time. so exorbitant; and under our present fairly high-class labor, and where conditions of federal supervision and units of machinery must be bought, there is an added expense to figure is chairman of the temporary organi- tarch. ures, there is little likelihood of the on. Added to this, the item of furprice being cut to the consumer by nishing bottles is no small matter in any other means of distribution. The itself. Of course, we have paper botanalysis of the operations which are tles on the market, but the cost has required in order to deliver the milk thus far prohibited their general use, at the door of the consumer are divid- due to the price which must be finally ed into the following three heads: asked of the consumer in order to pay Producing and delivering to the city; for these bottles. Then added to this, handling in the city plant, and de- the milk is a perishable product and livery and bill collection. A careful must be refrigerated and in most investigation as to what makes price large cities pasteurized—not mentionin these commodities will reveal the ing the fact that some consignments fact that the price cannot be very ma- are received in such poor condition that they must be disposed of at half price. There must also be taken into On account of the price of feeds, la- account the losses due to sloppage bor and stock, one cannot see in the and evaporation and the cost of mafúture any reduction in the cost of chinery and the other essentials which production. It requires a large amount go with pasteurization where that is

Delivery and Bill Collection.

A by no means unimportant part of

that horses are more economical when Ladd and Peter Swanson, Peninsula. it comes to delivering milk than are

Other Considerations.

In addition, a great amount of capthis cannot be turned over many with prices shot to pieces." times. The cost of delivery depends reduced one cent per quart if milk delivery systems were adopted which binding the members together. would cut out duplication of routes, but at present this does not seem pos-

In view of the federal laws regarding proper sanitation and testing and ers of that section are intelligent and that a large amount of capital is in- are alive and awake to the needs of vested in milk machinery, co-opera- this new time. The Grand Traverse tive marketing by farmer organiza- region is a recognized cherry-produc-In the handling and bottling, there tions should be well studied before at- ing center, but is famous for other theme. Among the points made are is incurred greater expense than tempted. Under present systems, it fruits as well. Good markets are seen would at first be supposed. The pro- would seem to be uneconomical and

GANIZE.

Fruit growers of the Grand Traverse region, desperately sick of "by-

the morning. It requires in addition zation and Willis Lindsey is secretary. to a man of brawn, a peculiar combi- On motion of Wm. G. Tompkins, of nation for the milkman must be the Upper Peninsula, a committee on salesman, solicitor and collector. Each organization was named, composed of of these labors is a distinct type in representative men in different secitself and as a consequence, a fairly tions, as follows: Rev. A. Bentall, good price must be paid for men who Northport; C. W. Loeffler, Solon; W. do this work. Added to this is the L. Thomas, Traverse City; John N. cost of horses, delivery wagons and Courtnade, Garfield; H. Wilce, Emaccessories. It has been found so far, pire; W. W. Gordon, Acme; E. O.

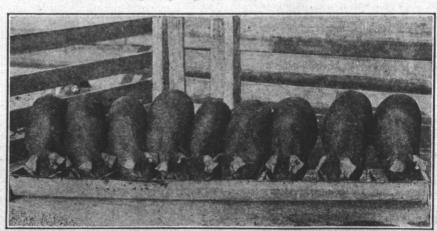
F. Kern, of the Peninsula Fruit Asthe power trucks. Then there is al- sociation, of Bayfield, Wis., was the ways a certain amount of loss, due to guest of the Michigan growers, and he bad bills which cannot be collected went into details regarding the Bay-This is true in any business. Any field organization. Speaking of its dealer, not matter what kind of com-success he said: "We have just marcertain amount of loss due to bad bills four years ago we had a little over debts. Now we have our own buildins and the stock is worth \$1.56. The Added to the foregoing main points, first great advantage of organization be lost sight of when arguing for a means that any buyer knows just more efficient basis of milk distribu- what he is getting and it logically foltion. We must take into account that lows that he will not quibble over all of these milk dealers are under prices. But the great advantage is in federal supervision and also that the distribution. Under the old plan an states and cities also impose other re- individual grower brings his perishstrictions peculiar to themselves. At able stuff to market and begs for a present the dealer studies the ques- buyer or sells to a commission man at tion to make the work efficient, for what the middleman says is the top efficiency in the different operations price. Under the co-operative system is what makes for profits and these outside markets are found by specialare small enough under fairly efficient ists and the grower's stuff is sold weeks ahead. This is accomplished without piling up stuff in Chicago or ital is required in the city plant and some other common dumping ground,

The Grand Traverse Association upon the amount of milk delivered and started off with 36 members and this also upon the wages which must be number is bound to grow and to inpaid for help. If a man delivers a clude all leading growers. Mr. Benlarge amount of milk in a small area, tall, chairman of the committee on orthe cost of delivery is lessened. Un-ganization, has been through the mill der our present system of delivery, and is a most valuable man. He orthere is much duplication on the ganized the Northport Fruit Growers' routes. This gives a greater choice Association, and managed the same of milk dealers to the consumer. Dr. through times of vicissitude and hard Williams, of Rochester, has figured knocks. He knows how vitally imout that the cost of milk could be portant it is to have an organization with iron clad rules, if you please,

> The new association will be incorporated, with shares at \$10 each. A constitution and by-laws are being prepared for adoption. The fruit growto outweigh good crops in importance and the Traverse City meeting doubtless will develop into one of the growers in Michigan.

ALMOND GRIFFEN. Kent Co.

Learn to be pleased with everything, guess and by-golly" methods, met in with wealth so far as it makes us ben-Traverse City recently, and took eficial to others; with poverty, for first steps toward forming a co-opera- not having much to care for; and with tive marketing association. L. F. Titus obscurity, for being unenvied.-Plu-



curious situation has developed in the distribution of meat products. A curious situation has developed in the distribution of meat products. Largely by reason of the foot-and-mouth disease quarantine, prices to farmers have been considerably reduced, while retail prices to consumers are scarcely altered at all. Not being privileged to the books of the packers and retailers, we do not know who is taking the additional margin, perhaps it is being divided. Occasionally a farmer is found who suffers nothing from the change. He has a half-dozen families in the city who accept his shipments of dressed meat. During cold weather he butchers a hog, or sheep, or beef, every two weeks or so, cuts the carcass and ships it to his city customers. They pay transportation charges and remit to him a price that gives a substantial margin over the ruling live stock quotations.

Specifications

Double ball type governor; Hercules cylinder head, extra large cooling sur-faces around cylin-der and cylinder head; larger water po, thar ever, easily drained, frost proof, a low speed, heavy

million dollars to the farmers by lack of adequate marketing facilities. The Crop and Market Notes. enclosed clipping, (a despatch from Cleveland alleging that a Cleveland operator has cornered the bean market), accounts for one-fourth of that figure. The information also is of importance since it answers the question asked by those who think supply and demand fix prices, at least to the producer.

There is also a bit of information in the fact that one man can legally raise the price of beans while (without legal reason) fear is expressed that if the farmers were to unite and fix the price of their product they would be violating the anti-trust law. Shiawassee Co. J. N. McBride.

FREE MILK TESTING SERVICE.

We have arranged to have samples of skim-milk, whole milk and cream ing from our subscribers tested free. If you wish to know whether your creamery is giving you proper returns have a sample of the cream tested to compare with the report of the creamery. Possibly your cream separator is not working as it should. Send us is not working as it should. Send us a sample of the skim-milk and let the test tell your whether the machine is leaving too much butter-fat in or not. You may have some cows in your herd that are not paying for their keep. You can determine this by having the milk from each cow tested, from which you can accurately determine the value of the milk each gives. We established the free milk testing service to meet the above needs. It of rough feed in farmers' hands and many are buying up stock to utilize it,

service to meet the above needs. It is for every subscriber to take advantage of.

Follow these directions: Thoroughly mix the sample of milk to be tested, by pouring three times from one can or bucket to another and back again. Next take a sample, fill a 4-ounce, wide-mouthed bottle, enclose the bottle in a mailing tube and send by parcel post to the Michigan Farmer Laboratories, 674 Woodward Ave., er Laboratories, 674 Woodward Ave., Detroit. The sample will be tested promptly, and returns made directly from the laboratory.

In case you do not have a bottle and mailing tube, we can furnish the same, postpaid for 10 cents. In ordering bottle and mailing tube, address The Michigan Farmer, Detroit, but in sending the samples be sure to address them to Michigan Farmer Laboratories, 674 Woodward Avenue, Detroit, as indicated above.

MICHIGAN CROP REPORT.

Wheat.-The condition of wheat as wheat.—The condition of wheat as compared with an average per cent is 94 in the state, 92 in the southern counties, 95 in the central counties, 96 in the northern counties and 97 in the upper peninsula. One year ago the per cent was 98 in the state, central and northern counties, 94 in the south-ern counties and 102 in the upper pe-

Michigan.

Michigan.

Monroe Co., Dec. 7.—Potato yield is fair this year, 35@40c per bushel. We need a buyer and shipper here at Maybee, all surplus hauled to Monroe. Tomatoes grown for factory paid the farmers well this year, bringing from \$100@125 per acre. Wheat, while sown late, looks fine; yield from 15 to 35 bushels per acre. Corn about all husked, yielding from 80 to 120 baskets per acre, not much sold but is being fed to cattle and hogs. Hogs about all in farmers' hands yet on account of the strict quarantine, some being dressed for Toledo and Detroit markets at 9c. Eggs 32c; butter 26@30; hay \$10@12; oats 47c; farmers busy plowing for oats.

Hillsdale Co., Dec. 2.—Nearly all the corn crop has been taken care of, with the exception of some fields yet to be

the exception of some fields yet to be shredded. Many farmers are taking shredded. Many farmers are taking advantage of the open weather to do fall plowing. Many fat hogs are in the hands of farmers, shipments having been delayed by the live stock quarantine. Both the foot-and-mouth disease and hog cholera have appeared of late, in Hillsdale county, but their ravages have not been great. Live poultry which was also held up by the quarantine, is now being shipped in considerable quantities. Fewer western sheep and cattle than usual, will be fed this winter, owing to the fact that the live stock quarantine was

some rotting on the trees, on account of warm weather at time of picking. Horses and cattle are looking well. Hogs \$6.25, but cannot ship out of the state. Wheat \$1.07; butter 30c; eggs 29c per dozen.

Branch Co., Dec. 5.—Quite a little corn yet to husk. Potatoes average about 125 bushels per acre; beans about seven bushels; corn lightest in a number of years. Wheat and rye looking well. Not as much grain as usual in farmers' hands. Owing to the quarantine farmers are having to feed stock longer than was expected, and those not having feeders are unable to get them. Some potatoes being shipped at 27c; wheat \$1.08; corn 60c; oats 44c; butter 30c; eggs 32c.

Livingston Co., Dec. 5.—Weather

Livingston Co., Dec. 5.—Weather has been mild for the time of year, and the ground is not frozen. Farmers plowing and getting their work well along for spring. Stock of all kinds doing well. Sheep are still being pastured, which will be quite a saving in feed. Hog cholera is getting quite a start in the county and farmers are doing everything possible farmers are doing everything possible to prevent its spread. Beans at \$2.30 and rye at \$1 are being marketed quite freely.

Sanilac Co., Dec. 8.—Farmers are

ern counties and 102 in the upper peninsula.

The total number of bushels of wheat marketed by farmers in November at 85 flouring mills is 179,766 and at 93 elevators and to grain dealers 192,367 or a total of 372,133 bushels. Of this amount 253,494 bushels were marketed in the southern four tiers of counties, 108,521 in the central counties and 10,118 in the northern counties and upper peninsula. The estimated total number of bushels of wheat marketed in the four months August-November, is 5,500,000. Thirty-five mills, elevators and grain dealers report no wheat marketed in November.

Rye.—The condition of rye as compared with an average per cent is 95 in the state, 94 in the southern counties, 96 in the central counties, 96 in the state and central counties, 95 in the state and c

A CORNER ON BEANS.

southern counties, 93 in the central counties, 94 in the northern counties roads. Not much grain moving; some wheat going to market at \$1.06 per bushel. Eggs scarce and high. New seeding withstanding winter in good becamber 5, it was noted that there horses, cattle, sheep and swine.

Southern counties, 93 in the central roads. Not much grain moving; some wheat going to market at \$1.06 per bushel. Eggs scarce and high. New seeding withstanding winter in good shape. Clover hulling under way, and yielding from one to three bushels per and seeding withstanding winter in good shape.

acre.

Emmet Co., Nov. 26.—Snow sufficient for sleighing; staying for a week, now going. Stock is generally healthy, with good supply of feed on hand. The crop of potatoes was good, but buyers only offered around 20c and many went into cellars and pits.

Beans were fair to good as to care. Beans were fair to good as to and culture given the crop, and are quoted at \$2.10.

quoted at \$2.10.

New York.

Columbia Co., Dec. 7.—Potatoes were above the average of past years, and sell around 50c per bushel. Beans were a fair crop, and white marrows bring 3.75 per bushel. Corn yield is above average, bringing 75c per bushel. Rye did not make much growth owing to drouth. No wheat grown here. Very little farm produce except hay and straw being sold. Not much stock for sale except a few hogs. Butter 35c; eggs 55c. ter 35c; eggs 55c.

Pennsylvania.

Lancaster Co., Dec. 8.—Yield of potatoes very much above the average. Beans are good; corn good crop in quality and quantity. Meadows, new seeding and wheat not very good, owing to dry weather. No stock being bought on account of strict quarantine throughout the country for footand-mouth disease, therefore fewer fed than usual. A good supply of corn and-mouth disease, therefore fewer fed than usual. A good supply of corn fodder in farmers' hands. Surplus wheat has mostly been sold on account of the moth. Eggs 40c; butter 35c; apples 60 per bushel; dressed pork 10c; calves 8c; steers 8c; to-bacco brings 10c per pound.

Ohio. Ohio.
Clermont Co., Dec. 8.—Some potatoes hardly doubled the seed planted, while others produced a fair yield. Corn on bottom land averaged 75 bushels, and on hill ground considerably less. Wheat and rye are in good condition. Most farmers have enough feed for winter, but some having a large number of cattle and hogs are buying feed. Small surplus of grain for sale. The quarantine has brought

for sale. The quarantine has brought prices down, and farmers are awaiting a raise in prices. Hogs \$6.50; cattle \$6.50; butter 26c; eggs 37c; young chickens 11c; corn 75c per bushel.

Darke Co., Dec. 8.—Corn husking is about done; about an average yield and quality fair. Wheat looks good, and meadows fine. Live stock has begun to move since quarantine was taken off. There are several cases of hog cholera. Farmers have plenty of rough feed. Corn 55c; oats 50c; wheat \$1.04 per bushel; eggs 35c; chickens 10c; hogs \$6.50.

Greene Co., Dec. 8.—Potatoes and corn both improved in the latter part of the season, and returned fair to

of the season, and returned fair to good yield, potatoes yielding around 150 bushels; corn 20 to 80 bushels. The fly injured early sown wheat, but later sown looks good. Plenty of wheat later sown looks good. Plenty of wheat still in farmers hands and some wheat will be held; corn is going to market slowly at 55c a bushel. This county is in quarantine, but no cases of footand-mouth disease. Hog cholera caused thousands of dollars loss, the worst ever known. Wheat \$1.10; hogs \$5@6.

Holmes Co., Dec. 7.—Weather wet, but not cold and no snow. Potatoes are yielding well. Corn all in crib, with an average yield. The acreage of wheat is normal, and looks fine. Farmers have plenty of feed on hand. The quarantine being on, there is

The quarantine being on, there is plenty of stock in farmers' hands, intended for the earlier market, which is causing prices to be lower than usual. Potatoes 50c; wheat \$1.06; corn

Shelby Co., Dec. 5.—Cold weather with rain the last few days. Corn husking all done, and is a fairly good crop. Potatoes a poor crop. Wheat is badly hurt by the fly. There is plenty of feed for home use, some corn and oats for sale, but very little surplus hay. Hogs are about the only stock fed for present market, and the price is unsatisfactory on account of foot-and-mouth disease. Some corn sold at 75c per cwt; oats 45c; wheat \$1.05; cloverseed \$7@8; butter-fat 29c; eggs 32c; poultry 9c; turkeys 15c per pound.

Wayne Co., Dec. 7.—Corn is about

Wayne Co., Dec. 7.—Corn is about all in the crib, with a yield of 100 baskets per acre. Wheat looking fairly good. Farmers have a good supply of rough feed. Hogs plentiful, cattle not so many being fed. Potatoes are being shipped at 35c per bushel; hogs \$8, dressed; butter 33c; eggs 36c; chickens, live 11c.

Noble Co., Dec. 5.—Nearly all corn and fodder has been cared for, surplus stock marketed, and farmers generally are ready for winter. Wheat fields look good, late sowing being benefited by the late fall. Farmers are well supplied with feed, but will have but (Continued on page 564). Wayne Co Dec

(Continued on page 564).

Volume --- Quality

VOLUME is our watchword-QUALITY our motto. Quality—Galloway engine quality—has made our tremendous volume possible. Skilled workmanship, best materials bought in large quantities, simplicity and perfection in design, and supremacy in power are supremacy in power are why I call this new 6 h. p. (horse power that is horse power) Gallo-way's MASTERPIECE.

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independent of hired help. Save your time, k and money. Saw big timbers at the rate of 25 to 40 cords a day. It's only "boy's play" with an PRELAND Drag Saw Machine
STRAIGHT LINE
Has no equal in convenience, simplieity and long life. It's light, compact, strong, well-



Use time of drive to mile save toll by grinding sed at home with the Star eard for catalog. Star Mfg. Co., 11 Depot St., New Lex-ington, Ohio.



The White Basket

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Berlin Heights, Ohlo

WANTED. -- Northern Grown Seed Beans as free from Blight and Anthracases as possible, good yielders, early naturity and uniformity desired. Send samples and quote prices and full particulars. Producers Elevator Co., Sandusky, Mich.

Markets.

GRAINS AND SEEDS.

December 15, 1914.

Wheat.—The bulls had the advantage in the market the past week and prices have gone up. While there has prices have gone up. While there has been a slight falling off in the amount of wheat leaving the farms, the main reason for the advance was the heavy demand from foreign countries. Italy is drawing heavily for wheat from Ar-gentine and the firm and higher prices prevailing by reason of this outlet has caused anxiety in England, so much so, that quotations at Liverpool were put up to attract cargoes thither. Amso, that quotations at Liverpool were put up to attract cargoes thither. Amput up to attract cargoes thither. Amput up to attract cargoes thither are profit. erican farmers and holders are profit-ing by the situation. Although the visible supply shows an increase amounting to nearly four million bushamounting to nearly four million bushels, some of this showing is due to the adjustment of stocks by lake shippers and carriers and actually should have no influence upon dealing. Foreigners are buying freely and this is keeping the surplus down in spite of the liberal selling by farmers due to the attractive prices offered. A year ago the price for No. 2 red wheat was 93½c per bushel. Quotations for the past week are:

	No. 2	No. 1	
	Red.	White.	May.
Wednesday	1.15%	1.121/2	1.23
Thursday	1.15%	1.121/2	1.23
Friday		1.12%	1.231/4
Saturday		1.141/4	1.243/4
Monday		1.15	1.2434
Tuesday			
Chicago, (Dec	. 14).	-No. 2	red

wheat \$1.181/2@1.19 per bushel; May

\$1.21%.

Corn.—Corn has advanced in firmness with wheat. The cold weather
has slackened the deliveries by farmers, while it has opened up a demand
from feeders and tended to stimulate
the movement of the grain generally.

The local market was quiet, with buythe more numerous than sellers or res more numerous than sellers on Tuesday. A year ago the price for No. 3 corn was 68½c per bushel. Quotations for the week are:

	No. 3	No. 3
	Mixed.	Yellow.
Wednesday	631/2	641/2
Thursday	63 1/2	641/2
Friday	64	65
Saturday	64	65
Monday	641/2	651/2
Tuesday	64 1/2	65 1/2
Chicago (Dec 14)	_No 9	vollow

corn, new 63¾ @64½c; Dec., 63c; May 69¼c per bushel.

ots.—This grain continues in good demand but prices seem to depend more upon the conditions of wheat and corn trading than upon the oat supply and demand situation. Stocks seem to be limited. The visible supply shows a slight increase. One year ago the price paid for standard oats was 43 4c per bushel. Last week's quotations were:

		Standard	No. 3
Wednesday			50
Thursday			50
Friday		. 50 1/2	50
Saturday			50
Monday		. 50 1/2	50
Tuesday		. 50 1/2	50
The second secon	1000		

Chicago, (Dec. 15).—Standard oats 49½@50c; No. 3 white 48½@49½c; Dec., 47%c; May 51%c per bushel.

Rye.—Millers continue to take rye freely and have held the price steady at \$1.10 by reason of their urgent need. The quotations have been ad-

need. The quotations have been advancing for over a month past.

Beans.—Local values have advanced 10c and the deal appears to be increasing in strength with many reports of foreign demand and buying. Detroit quotations are: Immediate and November shipment \$2.45; December \$2.55. Chicago reports a steady tone and prices. Pea beans, hand-picked, choice, are quoted at \$2.65@2.75; common at \$2.40@2.55; red kidneys, choice, at \$3.25@3.50.

Clover Seed.—Dealing in samples is

Clover Seed.—Dealing in samples is active, with prices off a dime since last week. Prime spot and December \$9.10; March \$9.30; prime alsike sells

Toledo.—Prime cash and December \$9.17½; March \$9.37½; prime alsike

FLOUR AND FEEDS.

Flour.—Jobbing lots in one-eighth paper sacks are selling on the Detroit market per 196 lbs., as follows: Best patent \$6.20; second \$5.80; straight \$5.25; spring patent \$6.50; rye flour \$5.80 per bbl.

Feed.—In 100-lb. sacks, jobbing lots are: Bran \$25; standard middlings \$25; fine middlings \$32; coarse corn meal \$28; corn and oat chop \$25 per ton.

ton. Hay.—Quotations are steady. Car-

lots on track at Detroit are: New, No. 1 timothy \$16@16.50; standard \$15@15.50; No. 2, \$15@15.50.
Chicago.—Liberal offerings and a fair demand prevent price advances. Choice timothy \$16.50@17; No. 1, \$15@15.50; No. 2, \$12.50@13.50.
Straw.—Steady. Rye \$7.50@8; oat straw \$7@7.50; wheat straw \$7@7.50 a ton.

DAIRY AND POULTRY PRODUCTS.

Butter.—Market continues firm at last week's prices. Extra creamery 32c; firsts 29c; dairy 21c; packing stock 20c per lb.

Chicago.—Trade is light and supply ample. Fancy goods hold firm but there is too much poor stock arriving. Prices unchanged. Extra creamery 32c; extra firsts 30@31c; firsts 27@28½c; seconds 24@26c; packing stock 20½@20¾c.

Elgin.—Market dull and slow, only high-grade stock selling well. Quotation the same as last week, which was 32c.

Poultry.—Holiday activity is caus-

was 32c.

Poultry.—Holiday activity is causing firmness in market. Prices are slightly higher. Springs 12@12½c; hens 8@12c; ducks 14½@15c; geese 12@13c; turkeys 18@18½c.

Chicago.—Not much change in the market. Fowls and springs slightly lower, while other poultry advanced some. Quotations on live are: Fowls, good, 9@11c; spring chickens 11½c; ducks 13@13½c; guinea hens, per dozen \$3.50; turkeys 16c; geese 10@12c.

Eggs.—Market firm with prices 3c higher than last week. Fresh stock sells at 33c per dozen; current receipts 29½c.

3c higher than last week. Fresh stock sells at 33c per dozen; current receipts 29½c.

Chicago.—Market especially firm for strictly fresh stock because supply is limited. Dealers are using storage eggs in preference to the ordinary firsts. Prices higher. Miscellaneous lots, cases included, 23@34c; ordinary firsts 28@30; firsts 34@35c per dozen.

FRUITS AND VEGETABLES.

Apples.—Trade is good and market steady. Cold weather has eliminated farmers' bulk stock. Prices unchanged. Baldwins \$2.25@2.50 per bbl; Greenings \$2.75@3; Spy \$3; Steele Red \$3.50; No. 2, 40@50c per bushel. Chicago.—Good quality of common storage and fresh arrivals are steady. Cooler stock sells well and brings a premium price of 25@50c per bbl. Baldwins \$1.75@2.25; Kings \$2.50@2.75; Wageners \$2.25@2.50; Jonathans \$3.50@4; Greenings \$2.50@2.75; Northern Spy \$2.25@2.50. Western box apples are selling for 75c@\$2.25 per box.

per box.

Potatoes.—Market steady with no change in prices. Carlots 35@38c per bu; in bulk 40c per bu, in sacks; at Chicago the market is steady at last week's prices. Michigan white, in bulk, are quoted at 35@42c per bu; at Greenville, Mich., 25@27c in bulk.

WOOL.

Transactions in fleece wools are small in number and size. Prices are maintained on a firm basis and supplies are being rapidly depleted. The past week has been quiet with manufacturers buying the kinds and quantities they need for filling orders in sight. They would rather pay higher prices later on than to lay in extra supplies now. Boston quotations are: michigan ½-blood combing unwashed, 27@28c; %-blood do., 28@29c; ¼-blood do., 28@29c; ¼-blood do., 26@27c; do. unwashed clothing fine, 23@24c ½, %, ¼-blood do., 26@27c.

GRAND RAPIDS.

The potato market continues draggy the only gleam of hope to growers this week being weather conditions, which may raise prices a few cents. Buyers have been thinking for weeks that the bottom was reached, and they think so now. The week opens with prices around 22c. Growers have large quantities of potatoes in storage, but the stock on hand of the dealers is very small. The potato crop was big this year. Beans are doing decidedly better than potatoes, due to crop damage and to war conditions. The price to farmers now is firm at \$2.25, and many growers are holding for \$2.50 or better. The poultry market is firm, that the bottom was reached, and they think so now. The week opens with better. The poultry market is firm, with dealers paying up to 10c for chicken, live weight; 12@14c for ducks; 11@12c for geese and 16@18c for turkeys.

DETROIT EASTERN MARKET.

The cold wave kept both farmers and buyers away from the market on Tuesday morning and but little business was transacted. Apples of inferior quality were selling at 75@90c; parsnips 45c; cabbage 40c; celery 20c per bunch; pork \$10 per cwt; loose hay steady with values reaching to \$20, average sales being \$18@19 per ton. No potatoes were in sight.

THE LIVE STOCK MARKETS.

Buffalo.

Buffalo.

December 14, 1914.

(Special Report of Dunning & Stevens, New York Central Stock Yards, Buffalo, N. Y.)

Receipts here today as follows: Cattle 100 cars; hogs 90 d. d.; sheep and lambs 50 d. d.; calves 800 head.

With only 100 cars of cattle on our market here today, with the exception of a few handy weight loads of cattle of good quality, that sold early to the butchers at barely steady last week's prices, all other grades were from 15 @25c per cwt. lower, and the bidding on the best heavy cattle, of which there are eight or 10 loads yet unsold, quality considered, is from 40 to 50c per cwt, below last week. There are some of the best cattle here today, Canadians, that have been seen here in the last 60 days, and any bids that were offered for them were not entertained, as it was such a great decline from the prices of last week's offerings.

We had a lighter supply of hogs

from the prices of last weeks ings.

We had a lighter supply of hogs here today than was looked for, but with liberal runs all over the west and rather slim outlet, that is, the outside demand, for all but pig stuff, market was slightly lower than the close of Saturday. Mixed grades of hogs sold at \$7.25@7.30; a few handy weight yorkers at \$7.40, and pig weights up to \$7.50. Roughs \$6.30@6.40; stags \$5.50@6. The market was fairly active and close was strong with a good for \$5.50@6. The market was fairly active and close was strong with a good clearance and outlook fairly good for

clearance and outlook fairly good for the balance of the week.

The market was active today on lambs and sheep, with prices 10c high-er on lambs than the close of last week; choice handy lambs selling at \$9@9.10; top Michigan lambs from quarantined counties \$8.60. We look for steady prices last of week

quarantined counties \$8.60. We look for steady prices last of week.

We quote: Lambs \$9@9.10; cull to fair \$6@8.75; yearlings \$6@7.50; bucks \$4@4.50; handy ewes \$5.50@5.75; heavy do \$5@5.25; wethers \$6@6.25; cull sheep \$3.50@4.50; veals, choice to extra \$10@10.50; fair to good \$8.50@9.50; heavy calves \$6@8.

Chicago.

Chicago.

December 14, 1914.
Cattle. Hogs. Sheep.
Receipts today. 42,000 50,000 38,000
Same day 1913.34,575 55,340 51,235
Last week.....50,088 200,801 104,976
Same wk 1913..64,821 221,174 152,964
Hogs marketed last week averaged 227 lbs., comparing with 221 lbs. a week ago, 214 lbs. a fortnight ago and 215 lbs. a year ago.
This is a year ago.
This is a severely cold Monday, and while the live stock receipts are extremely large, cars are unloaded so slowly that at a rather late hour no cattle worth mentioning had been sold. Traders were predicting a decline of

cattle worth mentioning had been sold. Traders were predicting a decline of 25c or more, or a fall of 50c from the high time last week, on Wednesday. Hogs started off at firm values, selling at \$6.60@7.15, while pigs were salable at \$5.25@7. The recent good shipping demand is shown by the fact that last week close to 43,000 hogs were shipped from here, comparing with 38,627 a year ago. Bids for sheep and lambs were considerably lower, but trade was late in getting started. Prime

was late in getting started. Prime lambs sold to shippers up to \$8.60.

Cattle were in much better general demand last week, and prices were headed upward, with sales advanced to the provider of the provider. headed upward, with sales advanced 25@50c above prices at the previous week's low level. The average quality of the offerings was greatly improved, with a fine showing of holiday beeves, many of which were prepared with a view of exhibiting and competing for prizes in the International Live Stock Exposition, which was abandoned because of the quarantines all over the country. Of course, it would not be fair to assume that the advance was anything like what the best sales would indicate, no steers having been sold during the previous week above would indicate, no steers having been sold during the previous week above \$10.80, but there were no such cattle offered then as the Christmas steers sold last week at \$11.013. Choice steers have been selling at \$10.250 11.25, good steers at \$9.50 and upward, medium class steers at \$8.500 9.45 and inferior to middling light-weight steers at \$7.500 directions. ward, medium class steers at \$8.50@
9.45 and inferior to middling lightweight steers at \$5.75@8.45, the last
named including a good representation of warmed-up cattle. Handy little yearlings were especially popular,
and the principal part of the holiday
cattle were of this class, few of them cattle were of this class, few of them averaging as much as 1,500 lbs. Butchering cows and heifers failed to develop such firmness as was seen for steers of good quality, sales ranging at \$5@8.75, with sales of canners and cutters at \$3.50@4.95, while bulls brought \$4.50@7.40. Calves suffered further big breaks in prices under larger offerings, with sales at \$4.50@9 for coarse heavy to prime light vealers. The existing quarantine of a large part of the live stock received made an irregular market, as stock in the quarantined division of the stock yards was not allowed to be shipped from here, thus eliminating real competition between buyers. Nor could live stock be shipped from here to urday, December 19, 1914.

points where there is no federal in-spection. Steer prices were some low-er Friday, and female cattle had a bad late break.

Hogs recovered much of their recent decline in prices that resulted from the enormous receipts of the previous week, and sales were made far higher than the low day of that week, when \$7.05 was the top price. Later there was a sharp break in values, due to larger receipts and lighter shipping orders putting buyers in control. Recent receipts have been heavier in weight than previously, the avier in weight than previously, the average weight being 221 lbs., or seven pounds heavier than a week earlier. Fresh pork continues to have a large stresh pork continues to have a large sale, being much cheaper than other meats, and there is a fair trade in cash lots of cured hog meats, although consumption would be much greater if prices were lowered in the retail meat markets in accordance with the large decline that has taken place in wholesale prices. On the first day of the month stocks of provisions in the five principal western packing cities the month stocks of provisions in the five principal western packing cities aggregated 138,807,000 lbs., comparing with 131,667,870 lbs. a month earlier and with 137,667,000 lbs. a year earlier. Stocks of lard amounted to about 31,000 tierces, comparing with 41,000 tierces a month earlier and with 90,000 tierces a year ago. After hogs had boomed to a point where the best brought \$7.75 there were bad hreaks that left prices on Saturday at \$6.65@ 7.15, with prime light and medium weights selling highest, while pigs brought \$5.50@6.75.

Sheep and lambs sell very high at

Sheep and lambs sell very high at all times, even after sharp reductions are made in prices. Because of the extreme irregularity of the supplies, there being alternately smail and liberal offerings, prices undergo extraordinarily wide fluctuations, and sheepmen sending in stock can never tell what luck they will have when their flocks reach the market. The lifting of the querantine ever a large part men sending in stock can never tell what luck they will have when their flocks reach the market. The lifting of the quarantine over a large part of the surrounding country brought in quite a number of lambs and sheep from Iowa and Wisconsin, and in too many instances owners shipped flocks that were poorly fattened, whereas there should be an unwillingness to do this in view of the great shortage in feeding districts generally. Heavy lambs are discriminated against and go at quite a discount. At the week's close prices stood as follows: Lambs \$6.25@8.75; yearlings \$6.25@7.75; wethers \$4.50@6.50; ewes \$3.75@5.65; bucks and stags \$3.50@4.25. The week's receipts were very much less than a week earlier and far below those of a year ago. Prices for sheep have not weakened materially, but lambs have sold off sharply, top the previous week being \$9.50. Packers claim they have lost big money on lambs purchased a week earlier.

Horses adapted for army use continue in large demand for shipment to France, Belgium and England at unchanged prices, mounts going at \$100@175. Wagoners and expressers are having a fair sale around \$160@210, and there is a small trade in drafters at \$215@285, few being offered or wanted. Horses selling over \$200 are few, and drivers sell usually at \$100@200, inferior horses selling down to \$60@75.

CROP AND MARKET NOTES.

(Continued from page 563).

(Continued from page 563).

I little surplus of corn. A great many hogs have been shipped recently upon the opening of the markets. The hog market has declined about \$3 per cwt. during the past month owing to footand-mouth disease and restricted markets. Hogs \$5.50; fat cattle \$6.50@7; sheep \$3.50@4; lambs \$6; calves \$7; wheat \$1.06; oats 45c; corn 70c per cwt; eggs 35c; butter 30c; chickens 9c; turkeys 12@14c.

Wayne Co., Dec. 3.—Weather fine but very dry, and many wells are going dry. Fall favorable for harvesting the corn, which is yielding 30 to 50 bushels per acre. An unusually large amount of fodder has been shredded on account of a short hay crop. All stock is doing well. This county has not been struck by the foot and mouth disease. Wheat and young clover are in good shape. Farmers are about through with fall work and some are plowing for spring crops.

Kansas.

through with fall work and some are plowing for spring crops.

Kansas.

Smith Co., Dec. 4.—Weather is fine, but we need rain. Potatoes were about half a crop and are selling for 80c per bushel. Corn is yielding from 10 to 40 bushels per acre. Live stock is in good condition, and there is plenty of feed for winter. Corn is worth 55c; wheat 96c; eggs 23c; butter 25c; apples \$1@1.25 per bushel.

THIS IS THE LAST 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
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they do for Thursus, Stock market report. You may change from one edition to another by dropping us a card to that effect.

The State Live Stock Sanitary Commission on December 18 raised the quantum on all townships in Michigan, but since this order was issued the ban has again been placed on a few townships in Saginaw county and they are now quarantined again. Live Stock from all other paris of Michigan may now be unloaded in the Detroit the care bear placards showing that they have been cleaned and disinfected since November 5. This refers only to live stock originating in the state of Michigan for Detroit, and that the federal quarantine against interstine and pout except to packers and butchers in Detroit Live stock killed direct to packing plants must be sent there and not unloaded in stock yards. There will be no market at these yards Friday next, Christmas Day. Anythite scales will be closed and no business will be done.

DETROIT LIVE STOCK MARKETS.

Thursday's Market.

December 17, 1914.

Cattle.

Cattle.

Thursday's Market.

December 18, raised the quantine against later with the state of the place of the

December 17, 1914. Cattle.

Receipts 728. Market steady with Wednesday; canners, bulls and Christmas cattle same as last week; all other grades 10@15c lower.

Best heavy steers \$8@8.50; best handy weight butcher steers \$7@7.50; mixed steers and heifers \$6@6.50; handy light butchers \$5.75@6.25; light butchers \$5.50@6; best cows \$5.75@6.25; butcher cows \$5.25@6; common cows \$4.25@5; canners \$3@4; best heavy bulls \$6@6.50; bologna bulls \$5.50@5.75.

\$5.50@5.75.
Spicer & R. sold Rattkowsky 3 cows av 1063 at \$5.50, 2 do av 910 at \$4.25; to Breitenbeck 20 butchers av 1057

Spicer & R. sold Rattkowsky 3 cows av 1063 at \$5.50, 2 do av 910 at \$4.25; to Breitenbeck 20 butchers av 1057 at \$6.75.

Roe Com. Co. sold Rattkowsky 1 cow wgh 1090 at \$5.5 do av 850 at \$5.50, 2 heifers av 675 at \$5, 4 cows av 1150 at \$5.50, 2 do av 1040 at \$4.50, 3 do av 1000 at \$5.50; to Kamman B. Co. 4 steers av 1050 at \$7.50, 13 butchers av 750 at \$7; to Rattkowsky 2 cows av 900 at \$5.50; to Sullivan P. Co. 20 steers av 938 at \$8.35, 21 do av 979 at \$8.35; to Kamman B. Co. 4 do av 1060 at \$7.50, 13 butchers av 820 at \$6.50; to Mason B. Co. 4 cows av 770 at \$5.50; to Sullivan P. Co. 6 canners av 908 at \$4, 4 steers av 935 at \$7, 3 canners av 803 at \$3.25, 4 do av 905 at \$3.60; to Kull 14 steers av 1140 at \$8.50, 1 do wgh 1320 at \$8; to Thompson Bros. 3 bulls av 1663 at \$6.40, 2 cows av 575 at \$3.75; to Sullivan P. Co. 7 cows av 943 at \$4, 4 do av 955 at \$4, 2 butchers av 795 at \$6; to Thompson Bros. 18 do av 773 at \$6.50; to Goose 1 bull wgh 1040 at \$5.25; to Applebaum 1 cow wgh 960 at \$5, 2 do av 1180 at \$6.

Haley & M. sold Bresnahan 3 heifers av 660 at \$6, 4 do av 702 at \$6.10; to Wohlmer 2 steers av 1065 at \$7.25, 1 do wgh 780 at \$6; to Feldman 2 cows av 1115 at \$5.15; to Sullivan P. Co. 2 do av 855 at \$3.50, 2 do av 1015 at \$4; to Shaparo 2 butchers av 505 at \$5.75, 11 cows av 1045 at \$5.25; to Rattkowsky 2 cows av 1040 at \$4.85, 2 do av 1030 at \$5.75, 4 do av 1050 at \$5.05; to Resnick 1 bull wgh 1650 at \$6.0, 1 cow wgh 810 at \$5.25; to Rattkowsky 7 do av 1170 at \$5.75, 2 do av 1080 at \$5.75, 4 do av 1050 at \$5.05; to Resnick 1 bull wgh 1650 at \$6.0, 1 cow wgh 810 at \$5.55; to Rattkowsky 7 do av 1170 at \$5.75, 2 do av 1080 at \$5.75, 4 do av 150 at \$5.75, 1 do wgh 1170 at \$5.75, 2 do av 1080 at \$5.75; to Applebaum 2 heifers av 625 at \$5.75; to Thompson Bros. 3 butchers av 690 at \$5.50, 1 do wgh 1190 at \$5; to Applebaum 2 heifers av 625 at \$5.75; t

Was sold to Thompson Bros. at \$10.

Veal Calves.

Receipts 524. Market steady. Best \$9@9.50; others \$6@8.50.

Bishop, B. & H. sold Thompson Bros. 2 av 130 at \$7, 6 av 170 at \$9.50; to Mich. B. Co. 11 av 185 at \$8.50; to Sullivan P. Co. 2 av 170 at \$9, 6 av 165 at \$9; to Newton B. Co. 13 av 160 at \$9, 2 av 180 at \$9.50, 4 av 155 at \$8, 1 wgh 160 at \$8; to Hammond, S. & Co. 12 av 180 at \$8.50, 12 av 150 at \$8; to Rattkowsky 7 av 160 at \$8.50; to Applebaum 8 av 145 at \$9.50; to Rattkowsky 9 av 165 at \$9.50; to Goose 4 av 180 at \$9, 1 wgh 140 at \$9.50.

Sheep and Lambs.

Receipts 5,567. Market steady with Wednesday; 25@50c higher than last week. Best lambs \$8@8.25; fair do. \$7.50@77.75; light to common lambs, \$6.50@7; fair to good sheep \$4.25@4.75; culls and common \$3@4.

Spicer & R. sold Parker, W. & Co. 17 lambs av 75 at \$8; to Sullivan P. Co. 32 do av 55 at \$6.50, 13 do av 40 at \$4.50.

At \$4.50.

Roe Com. Co. sold Barlage 21 lambs av 65 at \$7.50, 34 do av 90 at \$7, 31 sheep av 120 at \$4.25; to Sullivan P. Co. 44 do av 85 at \$3.75, 82 lambs av 75 at \$7.50; to Newton B. Co. 112 lambs av 75 at \$7.85, 10 sheep av 100 at \$4

The near approaches to foot-and-mouth disease in Peoria, Illinois, has spurred owners of distillery-fed cattle at that point to hurry them on the market, and cattle receipts in Chicago have included a liberal representation of these beeves. They were consigned direct to a leading packing concern. John McHugh, president of the First National Bank of Sioux City, Iowa, which is the recognized trade center of northwestern Iowa, South Dakota, northeastern Nebraska and southwestern Minnesota, sums up the farming situation briefly as follows: "Collections are reported to be improving, and altogether there is a very noticeable improvement in the general feeling. It is estimated that fully 80 percent of the corn, which is the principal crop, is husked, and it is found that the quality of the corn is much better than last year. While the value in the aggregate of our crops is higher than a year ago, the price of corn is about four cents a bushel under a year ago. Wheat is 19 cents higher and oats 10 cents higher. There are fully 25 per cent more hogs in this section than at this time a year ago, and while the price is slightly under that of a year ago, it is expected that the marketing will assume liberal proportions from this time on."

The recent rush upon the part of stock feeders to market their hogs in-

The recent rush upon the part of stock feeders to market their hogs indicates a lack of faith in the future hog market, as the receipts in Chicago and other western markets have been averaging much lighter in weight then only a few weeks ago. In the only a few weeks ago. In ago market unloading cars than onl Chicago In the Chicago market unloading cars of hogs under quarantine supervision was slow work at best, and prices have fluctuated wildly at times. While the future course of the hog market cannot be foretold, it would seem that rushing light-weight hogs from healthy districts to market at such a time is not wise, and the older feeders, it is observed, are holding back their pigs and underweights. Of course, existing quarantines are a serious disturbance to the hog market, as well as to the other live stock markets, and it is hoped by all that the foot-and-mouth disease will be checked and stamped out before much longer.

A RAZOR SNAP.

A new lot of Imported German Razors at 45 cents while the supply lasts, is now offered by the Michigan

lasts, is now offered by the Michigan Farmer.

The razors are made of the best German steel, five-eighth inch blade, and black handle. We will not say just what these razors ordinarily retail at, as prices on razors vary with each dealer, but we have seen razors no better sold at \$1.25 and \$1.50.

Every man who shaves ought to have at least three razors as it is a proven fact that giving a razor a rest is beneficial to it, and here is your opportunity to get a supply at very little cost.

So, only while our present supply

So, only while our present supply lasts the price is 45 cents each, postpaid, or a half-dozen at \$2.00, post-

A Strop Bargain, Too.

We also have a quantity of Zig-Zag
All-in-One razor strops that dealers
sold at 60c each. These strops are
made of finest horsehide leather and one side is treated with All-in-One solution which makes it possible to put a hair-splitting edge on the dullest razor. It combines the strop and hone in one.

hone in one.

The special prize on the strop alone, while the supply lasts, will be 25 cents, postpaid, but if ordered together with one of the above razors the price of both will be only 65 cents postpaid, or \$1.00 with the Michigan Farmer one year; \$1.50 for three years and \$2.00 for five years.

This would make a nice Christmas present, worth double the cost.

LIVE STOCK NEWS.

Stockmen throughout the country

Stockmen throughout the country who have been fattening cattle, hogs and sheep for the International Live Stock Exposition, were greatly disappointed when the foot-and-mouth disease broke out and rendered it necessary to abandon giving the great stock show this year. All hope of selling much stock at high prices was at an end, to say nothing of winning prizes. Abnormal conditions affecting live stock interests throughout a large part of the country have caused enormous losses to owners and to a great extent stopped marketing of cattle, hogs and sheep at Chicago and other leading packing centers. Quarantines have been maintained at many places, and even where it is possible to ship matured stock to market, many owners prefer to wait until normal conditions are restored before making shipments. Generally, the foot-and-mouth disease

EAST LANSING, JANUARY 13-15, 1915

Auction Sale in Stock Judging Pavilion Agricultural Building, Jan. 15, 9 a.m.

From 25 to 30 head of pure bred horses will be sold, consisting largely of Percherons, from weanling colts to six year old stallions and mares. Also a few Belgians and Clydesdales and several high grade draft colts.

For full particulars write R. S. HUDSON, Sec., East Lansing, Mich.

Farms and Farm Lands For Sale

Good Farms Around Lansing, and East Lansing, J. D. TOWAR, East Lansing, Michigan.

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, 16 Merrill Building, Saginaw. (W. S.), Michigan.

FOR SALE-In whole or part, 320 acre southern Michigan farm.
Good soil, buildings and fences. Immediate possession.
O. S. SCHAIRER, 214 Dewey Ave., Swissvale, Pa.

EXECUTORS SALE. No reasonable offer refused to 200 acres timber. 30 cows, 5 horses, 50 sheep, 10 barns, 8 sito, wagons, harness, plow, 3 houses. Ask for catalog No. 216. Price lowered to 34,000 for all. Get posted on this great bargain. Hall's Farm Agency, Owego, Tioga Co., New York,

For Sale By Owner On Acres in Shiawassee ductive soil, remainder good pasture land. Buildings, 9-room frame house, one barn 90 foot square, will house 1200 sheep, also large stock and grain barn. Other necessary buildings, Good orchard. This farm is conveniently and pleasantly located making it especially desirable. S. M. HOLT, 108 South Sycamore Street, Lansing, Michigan.

ILLINOIS FARM BARGAINS

FOR SALE OR RENT-200 acre farm near Marion, a city of 10,000 population. Will give the right man a smashing good deal, For Sale-100 acre farm near West Frankfort, Franklin County. Price \$40 per acre-Terms: \$1000 cash; balance very easy. For Sale-60 acre farm near Lena, Stephenson County Price \$65 per acre-Terms: \$1500 cash, balance easy. FRANK P. OLEVELAND, Owner, Marion, Illinois.

Healthy Cows All

A natural food that strengthens and builds up is far better than any kind of tonic or medicine for animals, as well as for men. Scientists have proved that this new food increases the value of any kind of feed, when mixed with it.

Buckeye Feeding Molasses

helps make more milk, and keeps your cows in good condition. It is also a good fattener for beef cattle.

For Horses—Buckeye Feeding Molasses is relished by horses. It keeps their stomachs in perfect condition, aids digestion and besides saving feed, prevents kidney diseases, colds, etc.

For Sheep—Will keep your flock healthy and well; adds weight and makes finer wool and more of it.

For Hogs—Makes every hog a big hog—no runts. Larger profits in pork.

CENTS a gallon f. o. b. Detroit, or 17 cents freight paid to any point in the U.S.

Our Free Trial Offer:

Send this coupon today and get our test proposition.

W. H. EDGAR & SON.

1242 Lafayette Blvd., :-: Detroit, Mich.

W. H. EDGAR & SON. 1242 Lafayette Blvd., Detroit. Mich. I have.....head of cattle... sheep.....hogs and.....horses Send me your trial proposition to prove that Buckeye Feeding Molasses will benefit all of them. P. O.State.....

descriptive booklet & map. STATE BUREAU OF IMMIGRATION, 65 Hoffman Building, Baltimore, Md.

DELAWARE FARMS Fruit, live stock, alfalfa. Best land near best markets. Address, State Board of Agriculture, Dover, Delaware

RABBITS TURKEYS DUCKS **GEESE CHICKENS** HOGS

Our Present Specialties Rush consignments forward by express. Prompt sales and quick returns assured by our 26 years in one store.

CHAS. W. RUDD & SON, VEAL, ETC. Commission Merchants, Detroit.

Ship your Hay to Pittsburgh and to Daniel McCaffrey Sons Company Pittsburgh, Pa.
Ref.—any bank or Mercantile Agency.

Our 20 Years Experience.

Handling Poultry, Calves, Pork, Wild Rabbits, Butter,
Eggs and General Produce in this market should be
of value to you. Best prices. Honest treatment.
NAUMANN COMMISSION CO.
Eastern Market, :-: Detroit, Michigan

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

FARMERS—We are paying five to eight cents above highest Official Detroit Market quotation for newlaid eggs shipped direct to us by express, Write us for information. It will pay you. American Butter & Cheese Co., 31-33 Criswold St., Detroit, Mich.

CASH PAID for bullet, tegs, round, varies, write us before selling elsewhere. CAMPBELL BRO'S. CO., 245 Napoleon St., Detroit, Mich.

POTATOES—HAY—More Money if you Consign to THE E. L. RICHMOND CO. Detroit. 21 years in bus!

BUY FEED-CAR LOTS Cotton Seed—Oil Meal, Hominy, Gluten, etc. Save money. Ask price. J. E. Bartlett Co., Red Mill, Jackson, Mich.

SPECIAL FARM SALE Fine Farm and Fruit Lands Price \$15 Per Acre for 60 Days

We have just put on the market several hundred acres of our Farm, Garden and Fruit Lands, in blocks of 20 acres or more, located in the south near the Gulf Coast. Excellent lands for all kinds of Farm and Garden Crops, Fruits and Nuts, such as Oranges, Grape Fruit, Figs, Strawberries, Grapes, Pecans, etc., also fine opportunities for Poultry and Stock Raising.

Delightful Climate, high altitude, sufficient rainfall, no irrigating; two and three crops can be grown annually; good water, schools, churches and railroad facilities.

Make a trip to the Gulf Coast and see the great opportunities for the Farmer, Fruit Raiser or Capitalist.

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MILLS FARM CO. (Northern Agency), ROSE HILL, N.Y.

Farmers' Clubs

THE ASSOCIATIONAL MEETING.

(Continued from last week).

President McBride's Address.

trial system. We are partners in the the co-operators or individuals. great structure of exchange or compartners.

now nearly obsolete, describing these been granted." conditions, like 'home-made goods,' type of the original farmer. Their or its wrapper of number, measure the differences of others. needs; the women weave, the men place of the article's production. tan. These people are independent

Regulate Prices.

"The soil products of the United men. States are the greatest tonnage producers of the railroads. Abundant had elaborate systems of cost per mile and look for the cause. and ton. In the course of time into trusts.

core, found there was no such laws.

period, largely without machinery; derful impetus, and then receded al- cate case. Independent potash pro- operation has failed." most to the vanishing point. Mont-ducers that are not members of the gomery Ward was the original Grange Kali Syndicate contracted potash to Another year has rolled into eter- Climax, Kalamazoo county; County field too limited, and became the ers at a price below that fixed by our annual meeting, joyfully greeting houn county; Green Oak, Hamburg great mail order house. This bit of the syndicate, and also refused to the old friends and bidding the new and Putnam, Livingston county; Libinformation is of importance because pay the small fees per bag or kilo ones a hearty welcome. farmers could not be limited to one power of the United States was used stitution. Ingham County Club has Washtenaw councy; Progressive, Maorganization. The Farmers' Alliance, to enforce this cut rate contract. Farmers' Union, Society of Equity and "The German government declared 43 years, Columbia 34 years, closely Sherman, Newaygo county; Standish, various other agricultural organization that it was against their established followed by Ceresco, Norvell, Burton, Arenac county; Union of Mussey, St. tions flourished and failed. The agri-policy to allow what is called de-East Arlington, Essex, Grass Lake, Clair county; Webtster and White

Stringent Trade Laws.

their economic organization will not to co-operate or finance the propa- organized united effort and in 1894 a co-operation was sought, largely as an of such trade promotion. end, instead of a means to an end.

Address all communications relative out example of co-operation. The to the German potash incident just who most efficiently laid the foundato the organization of new Clubs to production of butter, bacon and eggs related. Several years ago, when the tion of our present State Association, Mrs. J. S. Brown, Howell, Mich. "As civilization increases, we farm- that co-operation in Denmark led up gan crowding their product and even us today. ers come in contact at more points to the most stringent trade laws. In under-quoting the established price, than ever before. Our interests are other words, co-operation was not a and again lowered the price to the Julia Ball, and A. C. Bird have passed along the line of our business rela remedy until statutory enactment in producer. tions with the whole modern indus- regard to price making was given to

We have expressions or other sanction equal thereto has that particular line.

fields supply their personal and weight and a statement as to the

farmers who do not figure in the eco-producer and consumer are levied and rejected the idea of co-operation "mail order" acquaintances and hopes upon industry by too many trades- combinations or trusts, and do just pondents.

German Empire.

crops are what crank up the whole mires the stupendous resources of the not pathetic, to see the sublime faith ceived and answered to the best of industrial machinery. The entire in- German empire. If we were to crowd of those who urge co-operation as a her ability. dustrial world awaits the impetus of the population of the United States remedy, when railroads, manufacturagriculture. Yet when agriculture be- east of the Mississippi in about four- ers and European agriculture has oppressive, seems very satisfactory came basic or fundamental of industry fifths of the area of Texas, and had tried it, only to find it inadequate, and and will probably prove adequate for the farmers' products were not in- on that area practically doubled every have sought or been compelled to all associational needs. ventoried at cost, with profit added. farm product in the last 20 years; in have stronger bonds of union to suc-In fact, the producer had little to say the meantime became also one of the ceed. about prices, whereas manufactured foremost nations in manufacturing and goods were based on cost of labor with a peerless military and naval lacy, viz., that supply and demand 1914: and raw material, and transportation equipment, we may still more wonder fix prices. In fact, supply and de-

"The German laws recognize the governmental action, as in Europe. had on the whole been without ef- price making features of producers,

cultural organizations that succeeded structive competition, or price-lower- Maple River, Lenox and Chesterfield, Lake, Oakland county; West Haven, cultural organizations that succeeded structive competition, or price-lower- Maple River, Leno, and others, all over 25 years Shiawassee county; Wexford Boys' became more fraternal and social and ing that works an injury to the gen-Saline, and others, all over 25 years Shiawassee county; Wexford Boys' eral good: and also against public old.

Agricultural Club, Wexford county; policy to allow a tax or fee to be These local Clubs while doing ex- Watervliet, Berrien county; Washing-"To the student of history of Amer- used by part of an industry to pro- cellent work in their respective com- ton, Macomb county."

be so mystifying when it is seen that ganda to participate in the benefits meeting was held in this room for the

"In Denmark is the most conspicu- American co-operation as compared were represented by 35 delegates, co-operatively is really a manufactur- bean market was well night demoral- universally regarded as one of the ing business. Grains are imported ized, an effort was made to sustain great factors in Michigan's rural deand bought co-operatively. If Den- the market by dealers, who arranged velopment. mark were a grain exporting country to take an hundred cars off the marthe story of co-operation would be ket at a small advance. The smaller associational presidents, 15 of whom different. It is of interest to know elevators, including co-operatives, be- are living and several present with

"The remark is often made 'if farmers only would stand together,' etc. a firm stand in favor of temperance "The Danish law approved by King The continental idea is that when the and general progress, and as firmly merce, and to a great extent silent Christian X, June 8, 1912, is lengthy, government has approved the plans opposed graft and trickery of all but a part of it reads: 'It is also for- made for commercial interests that kinds. Its motto, "The skillful hand "This condition arises out of the bidden to sell or offer for sale goods they must stand together. The Eu- with cultured mind is the farmer's fact that farming originally was sim- in original wrappers from producers ropean or continental view is that most valuable asset," is well worth ply a manner of living and the farm- and jobbers upon which their fixed the producer is continuously in the the serious consideration of every Amer figured little in exchanges. A rep- prices for the retail trade have been industry, and that the sale of some erican citizen. resentative of a family reared 60 years indicated, unless the sale is the kind unit of his product does not permit ago told me their total cash outlay mentioned in section six, or unless the that unit to be used to the detri- blest with peace and prosperity while did not exceed \$15 for the entire fam- permission of the producer or jobber ment of the producer or producers of their European brothers are suffering

Bad Economists.

'store clothes,' etc. The phrase 'hired navigation is authorized to stipulate by the courts, is that when the proman' came into use in the north, as in conjunction with the chief organ- ducer has parted with some unit of for future years. an evidence of luxury for the persons izations of Danish commerce, indus- his produce he has no further inthat could afford to have work done try and trade that certain articles in terest in this particular unit, even tution and by-laws, and information on and pay for it, and in the south, more the retail sales may be sold or offered though used to his destruction as its organizing local Clubs have been reparticularly to distinguish free labor for sale only in prescribed units in producer. Our judiciary are notor- ceived and we note with pleasure the from slave labor. There are occasion- number, measure and weight or with jously bad economists, and the legal increasing popularity of Farmers' al mountaineers who are still of the an indication placed upon the article profession have lived in the past off Clubs as social, co-operative, and edu-

> "The great manufacturing induswhat the small co-operator would do,

mand are but different views of the West Otisco, Ionia county; Watson The German empire is without a same thing. This senseless saying in Road, Osceola county; Sherman, Isamanufacturers sought governmental parallel in industry, and when shorn regard to supply and demand has bella county; Pine Lake, Barry counsanction, in limiting competition by of militancy will be even greater. Ag- often been the expression of mental ty; Lone Tree, Traverse county; Haltariff schedules, and further limiting riculture in the German empire gets inertia, which found it easier to re- ton, Isabella county; East Nankin, it by stupendous combinations of 65 per cent off the consumer, while peat the adage than to think. Co- Wayne county; Colfax, Oceana councapital called corporations, and these the United States gets but 25 per operation as an end has been the little ty; Bruce, Macomb county; South Nocent. In the German empire there are world surrounded by our own horizon. vesta, Tuscola county, making a total "Gentlemen's agreements and hold- 24 states, and these subdivided into When we take the wider view we find of 131 Clubs representing 38 counties. ing companies, supply and demand, provinces not much larger than our that we must not only co-operate with Jackson county leads with ten, closely we were told was what regulated counties. In each county there is an our class, but with every other line of followed by Shiawassee, Livingston farm prices, but manufacturers and agricultural chamber of commerce; prdouctive interest. Class co-opera- and Oakland, nine each, Calhoun, Clinrailroads, like the boy and the apple these local chambers select delegates tion, limited to our own line, fails in ton and Isabella six each. Ceresco to the national chamber or land werth realization and must be considered as has the largest enrollment to date, "Agriculture, while subduing the schoftsfrat. These bodies have a le- simply a larger unit for co-operation 200, and Orleans the highest average middle west, and west, building homes gal standing and can initiate or criti- with other larger units. When this is attendance, 125. Bruce, East Nankin and during the first portion of the cize measures relating to agriculture. recognized then we have to invoke and West Otisco have already joined

fective organization. Father Kelly and enforces price making as well as country, and we must learn to use co-operative organizations had a won- matic episode of the potash syndi- by law has succeeded, where class co-

Secretary's Report.

supply house, but he soon found the the American fertilizer manufactur- nity and again we are assembled in Line, Osceola county; Eckford, Cal-

ican agriculture, the weakness of mote trade, and others who refused munities realized the urgent need of

purpose of affecting a permanent or-"Let me illustrate the weakness of ganization. At this meeting 22 Clubs

In the 20 years there have been 17

William Ball, the father of Miss to the great beyond.

The Association has always taken

American farmers are certainly the horrors of war and famine, and it seems very fitting for us to celebrate "The minister of commerce and of "The American view, as laid down this anniversary in planning a more

Many requests for copies of consticational factors of rural development.

The correspondence of the past tries have asked governmental aid in year has been specially pleasant as "Without this price-fixing by law the prevention of destructive competition, your secretary thoroughly enjoys her upon for uneconomic service forced in mutual associations; and formed to continue them as friendly corres-

Various requests ranging from tracviz., compel unity of action and main- ing lost relatives to "How to organize "The whole world wonders and ad- tain prices. It would be humorous if a cemetery association," have been re-

The new financial basis, while not

Last year we reported 120 Clubs representing 35 counties and gladly "There is a discarded economic fal- add the following 11 organized in

Wells and Dayton, Tuscola county; the State Association and we trust "God has given us a wonderful the others will soon do so.

South Leoni has been absorbed in saw the need of some organization, commodity fee participation. In ex- our opportunities, not selfishly, but the Grange. Oxford had a bad relapse and the Grange for a time had mar- planation of the last used term you for all. To co-operate with all under and your secretary has failed in all velous growth. Grange stores and will doubtless remember the diplo- adequate and ethical rules prescribed attempts to reach the following Clubs:

Bangor Center and Black River, Van Buren county; Blissfield, Lenawee county; Central, Ionia county; erty, Jackson county; Leima and Vi-Ward says that a common interest of of goods sold. All the diplomatic The Farmers' Club is not a new in- cinity and Western Washtenaw, been in continuous existence nearly son county; Riley, Clinton county;

(Continued next week).

DEC. 19, 1914.

Annual State Grange Meeting lowed by a very nicely given drill twelve ladies of the Sturgis Grange.

addresses.

The Master's Address.

A most pleasing feature of the Tues- as a whole. day afternoon session was the annual address of the Worthy Master. Mr. Ketcham is well known throughout the state for his oratorical ability, and his forceful manner of presenting affairs in Europe, many cases of emerpractical questions. In an introductory way he said that the committees he would appoint would bring vocated peace and the development of out many of the numerous questions in which the Grange was interested, therefore, he would consider only the more prominent ones. In speaking on the matter of co-operation, he said that this long discussed subject was becoming more popular every day, and that successful examples of co-operative work were becoming more numerous. Of the successful co-operative enterprises in Michigan he mentioned those of Scotts and Vicksburg, organized under the Rochdale plan, the Litchfield co-operative creamery and the Mosherville and Homer co-operative stock shipping associations. Of co-operative work among Granges he mentioned the organization formed by Acme, Camden, Austin and Montgomery Granges in Hillsdale county for the purpose of co-operative buying and selling. The Hiawatha Grange, of Schoolcraft, is also carrying on successful co-operative work. Good Roads.

In speaking of the good roads quesvery great economic importance, as the expenditures on road work involve the sum of \$17.39 per capita per year. Organization to Solve Rural Problems. Grange if it is to do its part. Let us The United States is much in need of good roads when compared with Eu- report of the National Grange meeting ropean countries. The cost of a wag- and saying a few impressive words for better degree work. Let us help on mile in France is only 10 cents, while in the United States it amount- ters who have passed beyond, Mr. full of good for all that no one will ed to 23 cents. The popularity and Ketcham concluded by saying that ever feel that the effort is not worth extensiveness of the rural free deliv- there was a great development of in- while. Let us strengthen all lines of approximately 40,000 rural carriers in changes in the laws with reference to Grange will pay its way. this country. For the purpose of fi- elections in the way of direct primarnancing the building of good roads, ies, initiative and referendum, etc., Mr. Ketcham urged the "pay as you brought the responsibility of the govgo" plan, as the bonding system often ernment closer to the farmer. costs as much in interest, as the urged the conservation of our food amount put on building the roads. supply on account of the great waste There is too much spent at present for which is now going on in Europe. administrative purposes and not On account of the rapid development enough of the funds for good work go of the rural problems, it is through or- the ensuing year: for actual road improvement. Busi- ganization only that they can be solvness roads should be built first, and the roads for pleasure purposes should and a large amount of work necessary Tecumseh; lecturer, Dora H. Stocknot be considered at this time. Farm- for their solution, there is no doubt man, Lansing; steward, T. E. Niles, ers market roads are more import- but that the day of opportunity for the Mancelona, re-elected; assistant stewant and of more economic value than Grange has come. Master Ketcham ard, W. H. Lovejoy, Owosso; chaplain, those for touring and sight-seeing pur- closed with the hope that all would go Mrs. O. J. C. Woodman, Paw-Paw, reposes.

Separating State and County Taxes. On the subject of taxation the Mas- its work.

NOTHER busy and history-mak- the schools. Under the present aring meeting of the State rangements some of the rural coun-Grange opened Tuesday morn- ties get more primary school money ing December 8, at Battle Creek. Af- than they pay in state taxes. As a ter going through the formalities of matter of illustration, Alcona and Osopening in the fifth degree and short- ceola counties were mentioned. In Ally afterwards closing in that degree cona county the state taxes in 1914 history of our Order in Michigan. and opening in the fourth degree, the amounted to \$6,920, while the amount There was a time when we grew very Grangers were welcomed to Battle of primary money they received was slowly. By and by Brother Horton Creek by two members of the Board \$14,432; in Osceola county the state of Commerce and Mr. Miller, Master tax was \$20,576 and the amount re- contracts. It came after the Patrons of the Calhoun Pomona Grange. This ceived from the primary fund \$40, of Industry had failed to make their was responded to in a very eloquent 207. While such counties may seem plan of economical buying work out. manner by N. P. Hull. The session to be getting an undue amount of pri- It was something new, it worked, and not having opened till 100 a. m., the mary funds, they get therefrom means so the Order came to have a new line morning was fully occupied by these to furnish children of the counties an of interest. A little later, the matter education that cannot but help being of Grange insurance came up. Do you a benefit to the county and the state remember how the Order grew then?

Advocates the Peace Program.

The question of increased military power is a vital one at present in Washington. Due to the condition of Mr. Ketcham expressed the gency. sentiments of the Grange when he adgeneral welfare instead of militarism. He asked the following question which should be given due consideration by "Is it a higher order of patriotism to advocate the building of dreadnaughts costing \$15,000,000 each to hover helplessly near the home shores in terror of submarines and aeroplanes than to urge the equal sum for the building and maintenance of roads?" This is a question of some importance, as three-fifths of the government expense is for army and navy purposes. This amount expended for peaceful purposes would be of great value to the country.

In speaking of the legislative program the Grange advocated, he suggested the obtaining of liberal appropriations for M. A. C., laws passed to make the Smith Lever bill effective for Michigan, the amending and strengthening of a primary law, the guarantee of deposits in banks, regu- effort. lation for the galvanizing of wire In speaking of the good roads ques-tion, Mr. Ketcham said it was one of the companient of the compani ture for a market commission for Michigan.

with reference to the brothers and sis-

separating the state and county taxes. pointed the various committees, after nie Black, Charlevoix; Flora, Mrs. C. While to many it seemed folly for the which the session was addressed by H. Anderson, L'Anse, re-elected; state to collect taxes from the coun- D. E. McClure, Assistant Secretary of Ceres, Mrs. Lucy Corliss, Coldwater; ties and then turn back 93 per cent, it the State Board of Health. He told lady assistant steward, Mrs. W. H. would strike a body blow to the rural of the work of the health department, Lovejoy, Owosso; executive commitschools of many sections of the state and urged the co-operation of the cit- tee, C. S. Bartlett, Pontiac, re-elected, to do away with the present system of izens of the state in the general pres- J. B. Horton, Fruit Ridge, re-elected, tax collecting. The saving of time ervation of public health. A very ex- J. W. Hutchins, Hanover; W. F. Tayand trouble by separating the taxes cellent exemplification of the third de- lor, Shelby, re-elected. would be a small factor when compar- gree by the Charlotte ladies' degree Muskegon was chosen as the place ed to the harm done the rural schools, team followed this address. The ex- for the next annual meeting. Other In many sections it would mean the cellent work of these ladies caused cities which invited the Grange for next cutting down of the school year, and much applause and favorable com- year were Alpena, Grand Rapids, Jackin some districts the entire closing of ment from all present. This was fol- son and Lansing.

lowed by a very nicely given drill by (Continued next week).

THE GRANGE THAT PAYS ITS WAY.

(Continued from last week). Let us consider for a moment the came along with his system of trade I recall getting a letter from Sister Buell at that time in which she said. "We have one new Grange for every day this month."

It was easy to organize Granges then, because in the public mind had come a vision of Grange possibility, and men and women came together to bring it to pass. Then came the struggle for primary reform. Along with that came the efforts of the supervision department for better degree work and more effective Grange work in each line. All these things helped because they were incentives to greater action on the part of the members. We need a revival of Grange interest just now. The past year has been a good one in the Grange field but next year should be better. I repeat, we need a Grange revival, but it must be more than simply the securing of members. It must come from a consciousness of work that needs doing. There must be an awakening of the public mind along distinct lines of In other words, public betterment. the Grange must find just as many great and good things to do as possible, and officers, deputies and members generally must be alive through and through with inspiration along these new and useful lines of Grange

But while we are in search of not forget the importance of the common, everyday duties we owe to our After giving a short but interesting plan to attend the meetings regularly, let us assist in creating a sentiment the lecturer to make each meeting so ery alone make it necessary to have terest and sympathy for country life our work while we keep ever on the good roads in this country. There are by the country in general, that the lookout for new interests, and our

W. F. TAYLOR.

OFFICERS OF STATE GRANGE FOR 1915.

The following were elected at the annual meeting of the State Grange at Battle Creek, to fill the offices for

Master, John C. Ketcham, Hastings, ed. With all these problems arising re-elected; overseer, C. H. Bramble, home with admiration for the Grange, elected; treasurer, Frank Coward, and added inspiration and courage for Bronson, re-elected; secretary, Jennie Buell, Ann Arbor; gate keeper, Peter ter spoke of the present tendency of Tuesday evening the Master ap- Klees, Montcalm county; Pomona, Jen-

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You can buy best quality steel roofing direct from our Mill at the car-load price. You keep all dealer profits and we pay the freight. Our roofing is easiest, quickest and cheapest to use—and anyone can put it on without special tools. Our exclusive process gives every sheet an extra-thick and extra-tight rust-proof coating. Extra durable for extreme wear. Proof against fire, lightning and the elements.

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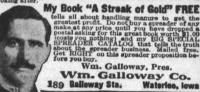




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Foust, Ashley, Onio, writes: 'Please find draft for received October 5th Assure you I am more tha yith same. It has proven all you claim and more. By your company, I saved \$21.80 and got just what I was





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Veterinary.

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

Advice through this department is 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 letter. fee of \$1.00 must accompany letter.

Chronic Sore Eyes.—Our local Vet. has been treating my young mare for sore eyes for some time but she shows little or no improvement and eyes are not clear. S. C. B., Bay Port, Mich.—Dissolve 40 grs. borate soda and 40 grs. boracic acid in 4 ozs. of water and apply to eyes twice a day. Give her 2 drs. Donovan's solution at a dose in feed three times a day.

Sprained Back.—Can you tell me what to do for a cow with weak back? She is only three years old and is due to freshen some time next January. C. & V., East Jordan, Mich.—Apply equal parts turpentine, aqua ammonia and raw linseed oil to back three times a week. Give her ½ oz. ground gentian and 1 oz. ginger in each feed.

Diseased Bone.—We have a three-Chronic Sore Eyes .- Our local Vet

gentian and 1 oz. ginger in each feed.

Diseased Bone.—We have a threeyear-old Holstein cow which was hooked by another cow, injuring jaw bone.
This bunch opened and appears to be
slow in healing, at times considerable
pus comes from it. W. C. S., Allegan,
Mich.—There is perhaps a splinter of
bone of jaw which should be removed
and the rough sharp edges of fractured bone scraped off, then apply one
part carbolic acid and 20 parts water
to sore twice daily and it will heal.

Hard Milker.—I wish you would tell

to sore twice daily and it will heal.

Hard Milker.—I wish you would tell readers of the Michigan Farmer how I made milking easier in my Holstein cow, simply by gently rubbing end of teat with fine sandpaper a few times. No name or address came with this letter. For the benefit of dairymen who might try it, avoid making end of teat sore or raw, or you may make bad worse.—Ed.

Nasal Catarrh.—Nearly all of my

of teat sore or raw, or you may make bad worse.—Ed.

Nasal Catarrh.—Nearly all of my lambs have discharged some mucus from nose and some of them cough, but they eat good. S. A. W., Clarence, Mich.—Mix equal parts of salt, ginger, gentian, cooking soda and charcoal and give each lamb half a tenspoonful at a dose in feed twice daily. Increase their grain ration.

Unthrifty Pigs.—I have 23 fall pigs 12 weeks old that are not doing well: they act ravenous, but do not eat much; bloat after meals, have a hacking cough, are fed one-fourth corn and three-fourths barley meal; also have plenty of salt, charcoal and ashes. H. G., Carson City, Mich.—Give them one part powdered sulphate iron, one part salt, one part ground wormseed, and seven parts ground gentian in feed twice daily; one-fourth teaspoonful is full dose for pig 10 or 12 weeks old, but it may become necessary to give them larger doses to kill bowel parasites and tone up their digestive organs.

Roup.—My chickens have a disease

sites and tone up their digestive organs.

Roup.—My chickens have a disease which seems to terminate in loss of vision and I would like to know what can be done for them. H. S., Sigsbee, Mich.—Remove well birds from the sick, kill and burn sick blind ones, wash eyes and nostrils with a lotion made by dissolving 1 dr. boracic acid in ¼ pt. of clean boiled water twice daily. Mix one part salicylate soda, one part hyposulphite soda, two parts powdered sulphate iron, three parts ginger and five parts ground gentian and give each bird 3 grs. at a time three times a day.

Injured Back.—I have a yearling colt that has rather poor control of hind quarters, the result of an injury by one of my other colts. When she was first injured I had to help her up

Michigan Farmer's Club List.

For the benefit and convenience of our subscribers we have arranged the following list of papers on which we can save them money. Besides the money, they save the trouble and ex-pense of sending each order sepa-rately.

EXPLANATION.—The first column gives the paper's regular subscription price. The second column price is for the Michigan Farmer and the other the Michigan Farmer and the other paper, both for one year. Add 50 cents when the Michigan Farmer is wanted three years, or \$1.00 if the Michigan Farmer is wanted five years. The third column price is for those who are paid ahead on the Michigan Farmer from one to five years and want the other paper only; such orders must be sent to us direct. All combination orders may be given to our agents or sent to us, as is most convenient. venient

venient.

Any number of other papers may be added at third column prices. Write for prices on publications not listed. We can save you money.

We send sample copies of the Michigan Farmer only.

Mention if you are a new or renewal subscriber. Renewals will be dated ahead from their present date. Allow monthlies three to four weeks and semi-monthlies two weeks before making complaint, if not received. We forward orders day we receive them.

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Enquirer, Cincinnati, C	1 00	1 05	60 56 60		
			19.48		
American Bee Journal, Hamilton, Ill. (w) American Poultry Journal, Chicago, (m)	1 00	1 50 1 20	60 75 35		
American Poultry Advocate, Syracuse,	1 50	1 35	35		
American Swineherd, Chicago, (m)	50	75	35		
Poultry Weekly, Boston, Mass	1 00 1 00 1 00	1 30	85 25 35		
Green's Fruit Grower, Rochester, (m.)	50	70 80	35		
Cattle, Sheep, Swine, Founty, St. American Bee Journal, Hamilton, Ill. (w. American Poultry Journal, Chicago, (m.) American Poultry Advocate, Syracuse, American Swinehord, Chicago, (m.). Breeders' Gazette, Chicago, (w.). Poultry Weekly, Boston, Mass. Fruit Belt, Grand Kapids, Mich. Green's Fruit Grower, Rochester, (m.). Hoard's Dairyman, Fort Atkinson, Wis. Jersey Bulletin, Indianapolis, Ind. (w. Kimbal's Dairy Farmer, Waterloo, Ia. (s-m.).	1 00	1 20 1 35	75 90		
(s-m). (s	1 00	1 .15	75 70		
Poultry Pointers, Grand Rapids, Mich.	50 50	80	35 25 25		
Poultry Success, Springfield, O. (m) Reliable Poultry Journal, Qnincy, Ill. (m)	50	75	25 35		
Swine Breeders' Journal, Indianapolis Ind. (s-m)	50	80	35		
		0.90			
Everybodys Magazine, N. Y. City. (m) Etude, Philadelphia, Pa. (m)	1 50 1 50	1 60 1 60	1 15 1 15		
McClures, Magazine, N. Y. City. (m) Musician, Boston, Mass. (m)	1 50	1 60	1 15 1 10		
Everybodys Magazine, N. Y. City. (m) Etude, Philadelphia, Pa. (m) McClures, Magazine, N. Y. City. (m) Musician, Boston, Mass. (m) Veople's Home Journal, N. Y. City. (m) led Book Magazine, Chicago, III. (m) teview of Reviews, N. Y. City. (m)	50	85	1 10 1 10		
Review of Reviews, N. Y. City. (m)	3 00	3 00	1 10		
Ladies' or Household.	1 50	5000	1 15		
Designer, N. Y. City. (m)	1 50	1 05	60		
adies World, New York City	1 00	1 15 75	35 70		
Mother's Mag., Elgin, 111. (m)	50 1 50 1 00	1 55	30 1 15		
Voman's Home Companion, N.Y. City. m	1 50 1 50	1 60	60 1 15		
Delineator, N. Y. City, (m). Designer, N. Y. City, (m). Designer, N. Y. City, (m). Housewife, N. Y. City (m). Ladies World, New York City McCall's Magazine, N. Y. City, (m). McCher's Mag, Elgin, 1ll. (m). Pictorial Review N. Y. City, (m). Woman's Home Companion, N. Y. City, m Woman's World, Chicago, (m). Coday, Chicago (m). Realtons and J. Lycoulle.	35 50	60 70	15 20		
			8.77		
Merican Boy, Detroit Mich. (m)	1 00	1 00	55 30		
American Boy, Detroit Mich. (m) 30ys Magazine, Smethport, Pa ittle Folks, Salem, Mass. (m) (oung People's Weekly, Elgin, Ill. (w.) (ouths Companion, Boston, Mass	1 00	20	75 50		
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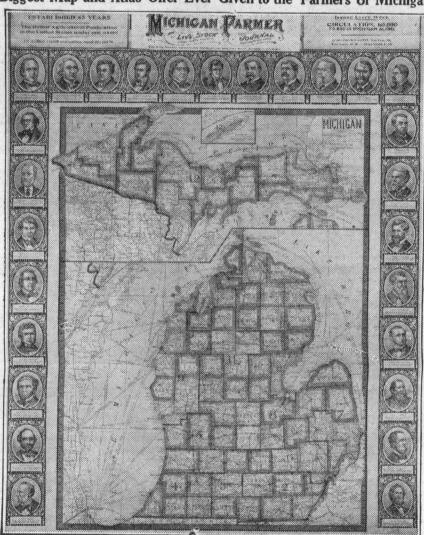
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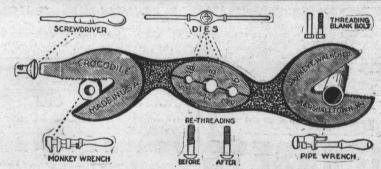
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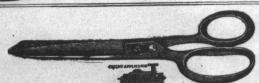


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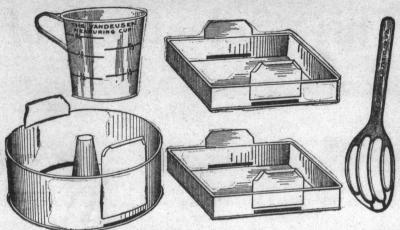
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