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#### FARM NOTES.

(2)

Seed Selections and Fertilization.

In the last issue, H. M. Wells, of Livingston county, gave his experience in the selection of seed potatoes by saving the best hills and in fertilizing liberally with commercial fertilizer on a portion of the field. For some reason he had better results on that portion of the field planted from common seed and on which he put no fertilizer. His experiment seemed to have been conducted with care and with a view of determining whether seed selection and fertilization of this kind would prove profitable on a large scale. Naturally, from the results obtained he asked the very pertinent question, "Where does the pay for the fertilizer come in," and with regard to seed selection by the hill method he remarked as pertinently that, "I did not select any seed this fall."

Now, Mr. Wells seems to have satisfied himself upon these points. That is his "funeral," but for the benefit of the general reader we feel it our duty to touch upon these points, and give such other evidence as may be available with regard to these practices which Mr. Wells found unprofitable. The reader will note that W. C. E., of Eaton county, in the same issue gave his opinion as a result of a single year's experiment that we need to pay more attention to this hill method of selecting our seed potatoes. Seeking evidence upon this point from some of the potato growers in the state who have experimented longest in selecting seed potatoes for a seed breeding plot from the best hills, the writer addressed an inquiry, among others, to Mr. C. A. Tyler, of St. Joseph county, who is well known to many of our readers and whose reply emphasizes a point to which we believe Mr. Wells has not attached sufficient importance, for which reason we quote from his letter as follows: "No one can-give a report that is of any value if his opera-tions cover but a single season. Conditions, precipitation, fertilization, cultivation, atmospheric conditions, all have so much to do with the potato crop that it is foolish indeed for any man to presume to show results with but one or two years' data to go by. I am of the opinion that after one had been at it for 75 or 100 I will explain that a ram is an iron mainteresting data. I make this assertion pail. however, that in my opinion one may increase his yield by 50 bushels per acre in six years of proper hill selection of his seed. I know of no other method that can ever hope to achieve like results. I know of no other method that will secure results that are permanent."

Others who have experimented along this line for several successive years are of the same opinion. We believe that their experience is worth something; that it is worth more, in fact, than that of one who has experimented along this line for but a single season, and we believe a point that merits especial emphasis is that the seeker after authentic knowledge should not be satisfied with a single trial of any proposition the result of which depends to a very considerable degree upon conditions other than those which are made the basis of the trial.

With regard to fertilization of the potato crop with commercial fertilizers, these same arguments apply. Statistics show that the potato growers of Maine get about twice the yield per acre that Michigan growers secure for a series of years, and the Maine growers universally use heavy applications of high grade commercial fertilizers, generally some 1,200 to 1,500 lbs. per acre being applied. Many of our experiment stations have also determined that heavy applications of fertilizers are profitable with potatoes. Of course, other conditions have a great deal to do with the problem, but we believe that the experience of a large class of eastern potato growers, covering a long period of years, is a safer guide upon this point than a single year of unfavorable

But these are very important points for every Michigan grower to determine for himself and under his own conditions and best water supply one can use. If it is possible for him to get results such as are noted by Mr. Tyler in the selection of seed by the hill method, he certainly wants to do it and should experiment for several years along this line in a small way at least, until satisfied what it will do for him under his local conditions. The same thing will apply with equal force in regard to the use of fertilizers. The wise grower will try out these propositions for himself, in a small way, at least, until he learns the

lesson is not all told in a single year's experience, be it favorable or otherwise

THE HYDRAULIC RAM FOR SUPPLY-ING WATER.

When I bot "Grand River View" farm a few years ago, I found the time honored method of supplying water was from a small spring enclosed by a barrel, at the foot of a steep clay hill. all had to be watered there too, being driven across the road and down the hill to the spring which was enclosed by a board pen. In pleasant weather this was a bothersome task, but in wet weather and when it was icy-well, the acrobatic stunts the stock performed would have made them star attractions at a And if we forgot to get a pailfull for table use before the stock was watered. we found it pretty "roily," to say the least. Then when the heavy rains came it was entirely unfit for use, Carrying two pails of water at a time up a slippery hill in the winter is conducive to thot, and before spring I had studied out a way to make the "water run up

The spring, as I have mentioned, was at the foot of a forty-foot bluff that ran parellel with the Grand river. Between the foot of the bluff and the river was a strip of muck land some 200 feet wide which sloped to the river about fifteen feet below. I found that the water oozed out all along the bluff into the muck, making it so wet the stock sometimes mired in it. The water being held by a stratum of hardpan overlaid with gravel.

So I dug a ditch up next to the bluff, to avoid the muck and secure a pure water supply in the gravel and laid in tile to gather the water, then conducted it by a two-inch pipe to a barrel sunk in the ground, which I used as a reservoir. From the barrel the large pipe led down toward the river as far as possible to get more power, without danger of being overflowed when the river was high. There a hydraulic ram was attached enclosed by a large tile. A small half-inch pipe conducted the water up to the house lifting it to an elevation of fifty feet.

As it seems to be an object of much curiosity and unfamiliar to many people, years, he would be able to furnish some chine small enough to put in a water pail. Its power is mechanical, simply driving the water up hill thru the force and fall of the water running into it. In theory, ten gallons of water will force one gallon ten feet high for every foot In practice it is somewhat less.

By gathering the water by tiles and storing it in the barrel I have plenty to run the ram which forces a constant stream of water into the house night and day. The cost of the ram was \$5.50 and the repairs in five years have been practically nothing. After the first cost of ditching and piping it runs itself. The only trouble we had was caused by a frog crawling in where a screen had rusted off the end of a pipe. A rod shoved thru routed him from his winter quarters and a new screen remedied that dis-

When installing the ram I also put in sewer tile down to the river and with the water from the ram we have all the city conveniences of bath-room and toilet in our country home.

From the house the water is also piped to a cooling tank where we have no difficulty in keeping our milk from Saturday night until Monday when it is all sent to the condensary.

I built a new barn on the side of the road next the river and have gathered the water there along the bluff in a similar manner where it flows in a tank making a convenient watering place for stock and with a constant flow does not freeze over. Incidentally the strip of muck land was drained so that a team can be driven anywhere on it.

Doubtless among the readers of The Farmer there are many that have springs large enough to run a ram by simply laying the pipe without the trouble of gathering the water that I had. The hydraulic ram is very commonly used in the east and if one has a spring of pure brook water available, it is the cheapest

F. M. STOCKMAN.

FREE BOOK ABOUT CANCER.

The Leach Sanatorium, of Indianapolis, Ind., has published a book on cancer which gives interesting facts about the cause of cancer; tells what to do in case of pain, bleeding, odor, etc., instructs in the care of the patient, and is, in fact, a valuable guide in the management of any case. The book is sent free to those interested who write for it, mentioning this paper.

lesson which they hold for him, and that See pages 542-543 for new free premium offers.



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#### A Bank Account.

farmer conducting his business by means of a bank account that can be given for the tradesman or manufacturer but additional reasons. The farmer is more isoself from burglary or thievery as can the books mainly, but also a cash drawer. The farmer's habits of life do not make his person a safe place to carry money since coat and vest are often laid aside. Strenuous stooping or climbing at labor companiment. In making the exact or similar collateral in the east. change and close figuring the writing of Wholesale Purchases. check is not only a positive saving the reasons for a farmer's set of books for business records are unnecessary by use of a check book.

Since the quantative theory of money in actual available use influences prices directly, as the volume is well established, farmers that should command wholesale the farmer is quite as much under obligations as any one to maintain his actual money in condition for available use by depositing in a local bank. A bank ac- that is converting something of raw macount means prompt cash settlements, terial into finished product, he should the lack of which is largely the cause of have wholesale prices on the raw matefarmers being obliged to pay the cost of rial. To do this the farmer or a few credit in prices. The farmer who prides himself in paying cash in a measure receives the saving of cash payments, for 10 or 20 cows realizes the aggregate of his neighbor who buys on credit often feed bot. In fact, purchases made in pays the same price. The prices made by catalog houses, every one knows are for cash, and the local merchant is often the farmer with 160 acres of land, and the unjustly made to bear the odium of high average equipment of stock, tools, etc., prices when he is merely compelled to be with the drayman who purchases a sack both a tradesman and a credit banker. of corn and oats ground for his team, is An eccentric merchant in Utah had his ludicrous. The manufacturer buys feed goods marked, cash price so much, credit for his one driving horse at the same price so much, and the difference was rate as the dairyman who keeps 10 cows. quite startling.

depositing money is cumulative. His hired rates, but the farmer buys his raw mateman learns to send the checks for wages rial at retail. Common business sense to the bank for deposit and acquires hab- applied ought to establish these classiits of saving. He takes pleasure in see- fications in equity to all. It is doubtful ing the account grow. A farm laborer if this principle can be applied to the who saved his money made the somewhat personal consumption of the farmer. startling observation that he did not have One's clothing can scarcely be made a to buy clothes any more. The ambiguity matter of wholesale price, unless he of expression was made plain by the fact might be at the head of a Mormon famthat the interest received clothed him. ily. Tea, coffee, sugar, etc., are legiti-The farmer's pay for products sold is mate goods for lower prices to the boardprobably 75 per cent paid in checks and ing-house keeper or hotel proprietor, but what is a convenience to those who pay not of necessity to family purchasers. can be made useful to the farmer as well. The establishment of the principle that The bank really becomes a clearing house will make farmers insist on wholesale for transactions, and just why the busi- rates where equitable, means simply the ness farmer should drop out and not com- application of business principles that is plete the cycle is difficult to see. The conceded to others. business farmer will gain by cultivating an acquaintance with the methods others employ in transacting business.

## The Farmer's Use of Credit.

Allied to depositing money in the bank is the use of bank money by means of loans. Discounting a note at the bank is not a humiliating matter but in reality bank endorses your credit or underwrites your ability to make a profit for yourself and for the bank out of a transation. The farmer is not, or should not as a rule, be a speculator, but he should if the land is of such nature that it does be able to bring feed and live stock together to produce meat or milk at a profit time. I take it, of course, that this land to better advantage than anyone else. The advantage of the farmer as a finisher cannot be tilled. It is either too rough of mutton has driven the professional for tillage or is not properly cleared for sheep-feeding operator out of business. The use of by-products for dairy feeds is often more profitable than the farm grown feeds, by reason of being a an acre, it would be a question whether cheaper source of protein, yet many it would not pay to pay \$40 an acre for farmers do not purchase because they do the land which could be turned to other not want to pay out the money until the use if one wished to, rather than buy product of milk is converted into cash. By the other land at even a reduced price, the use of bank credit at a cost of 6 per cent, 25 per cent profit is often easily a good investment to pasture good stock obtainable.

Various farmer societies have at times proposed to fix prices of farm products, a small degree

THE BUSINESS SIDE OF FARMING. added degree of wealth to the farm com- PROVE WHAT SWAMP-ROOT munity. A suggestion to those who make up institute programs would be to secure There is not only every reason for the your bank president or cashier to give a talk on the relation of the farmer to banking matters. One of the reasons of the rapid development of the western country has been a better use of bank lated in residence and cannot protect him- credit in farm circles, and the investment of surplus money at home. The eastern city dweller who usually has a safe for banker has looked for farm mortgages for purchase money rather than for going capital and the use of credit has been extended more to manufacturers and tradespeople. One hears a great deal about "cattle paper" and "sheep paper" makes the pocketbook an undesirable ac- in western bank circles, but little of that

There is perhaps no hard and fast line but a receipt for the payment. Many of that distinguishes what should be bot at wholesale rates and what are properly retail classifications. Farmers themselves should establish and educate dealers to establish such a classification. There are certain of the heavy purchases made by prices, or direct dealing. Fuel, feeds and fertilizer might be declared wholly in the list. Where a farmer is a manufacturer farmers must become users in car load lots. It is doubtful if the dairyman with small lots from time to time is more of a habit than a necessity. A comparison of The manufacturer buys the raw material The effect of the farmer's example in that enters into his production at jobbers'

Shiawassee Co. JAS. N. MCBRIDE

# VALUE OF GOOD PASTURE LAND.

What would be the value per acre of well watered pasture land? Tillable land adjoining is worth perhaps \$40 per acre. Muskegon Co. Subscriber.

At the present prices of dairy products and the present prices of all kinds of meat products, I am of the opinion that good pasture land is well worth from \$30 to \$50 per acre, if it is well watered and not dry out too much during the summer that Subscriber speaks of is land that tillage, or something of that sort, and yet affords quite an abundance of grass. Where adjoining land can be bot for \$40 because the good land at \$40 per acre is of any kind.

COLON C. LILLIE.

### The Rifle that Reached the Pole

proposed to fix prices of farm products, but with a small degree of success. Local bank credit extended to the farmer will be found a greater palliative of market gluts and price demoralization, if rightly used.

These questions are becoming more and more important as agricultural wealth increases and what may have been an academic question, or of but passing interest, is now of great interest. A Milwaukee packing house sent out circulars, some 30 days ago, which in substance guaranteed to the farmers remunerative prices for pork if they would feed it to mature weights. The farmers had the swine and the corn, the Packing Company guaranteed a safe minimum price, and wherever necessary, bank credit would be the remaining available factor of an

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FEEDERS' PROBLEMS

The Feeding Value of Some By-Products. what is the feeding value of clover chaff or straw? That is, after the seed is threshed out of it. 1, for sheep; 2, for milch cows; 3, for horses. What is the feeding value of cull beans of good quality? 1, for sheep; 2, for hogs; 3, for cattle. What is the nutritive ratio of peas and of beans?

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Subscriber.

chaff or straw? That is, after the seed is threshed out of it. 1, for sheep; 2, for molich cows; 3, for horses. What is the feeding value of cull beans of good quality? 1, for sheep; 2, for hogs: 3, for cattle. What is the nutritive ratio of peas and of beans?

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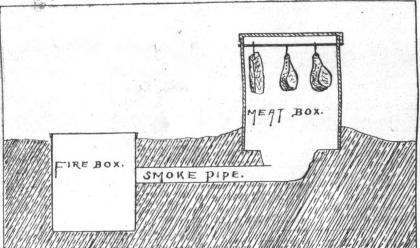
Subscriber. The feeding value of clover chaff will depend not a little upon the condition in which the seed crop is secured. It is not given in the list of feeds enumerated in any of our available feeding tables, and should not be depended upon as a very large factor in the ration of any kind of livestock. However, sheep, cows, or young cattle will consume some of it with profit provided an occasional feed is given by way of variety or provided it is scattered in the yard or placed in racks where they may have an opportunity to pick it over and select such portions as they may ease with hay, nor should it be used to eat it closely, as would be the case with hay, nor should it be used into manure, being used as an absorbent in stable or yard.

The feeding value of cull beans depends the part of placed in racks where they may the place of the condition in which they are fed, the extent to which they are made a factor in the ration, and the form in which they are fed, ther alone or in combination with other feeds. For sheep they may safely be made a Leckester ram, A. and W. Whitelaw, because of the more in combination with other feeds. For sheep they may safely be made a Leckester ram, A. and W. Whitelaw, because of the more incombination with other feeds. For sheep they may safely be made a Leckester ram, A. and W. Whitelaw, because of the more incombination with other feeds. For sheep they may safely be made a Leckester ram, A. and W. Whitelaw, Leckester ram, A. and W.

found on the farm, that would answer the purpose as well or even better. Mr. Bradford, who used the smoker, says his hams and bacon came out better than any he ever cured, and he will arrange a similar smoker in his new smokehouse that he will build this season.

Missouri. J. E. B.

CHAMPIONSHIP AWARDS AT THE INTERNATIONAL.



factor in the ration by using them in combination with corn and oats mixing the grains in about equal proportions. For hogs the beans should be cooked. Very fair gains are made on cooked beans alone, but it is good economy to combine them with corn in about equal proportions. The same facts appear to apply with feeding cattle, the feeding of other grains being even more important in their case.

The nutritive ratio of peas, digestible nutrients alone being considered, is about 1:3.2. The nutritive ratio of cull beans would be fully as narrow. It will thus be seen that where this grain is available, it affords a source of cheap protein, and makes a valuable feed for use in combination with other grains for hogs, sheep.

makes a valuable feed for use in combination with other grains for hogs, sheep,

nation with other grains for hogs, sheep, or cattle, but for breeding animals, care should be taken not to feed cull beans in excessive quantities.

SMOKING MEAT.

The meat smoking device herewith illustrated, was used by a Missouri farmer last season, on account of his smokehouse being hurned, along with other buildings, being burned, along with other buildings, just at the time he was ready to smoke his meat. The firebox was made from an old lard can, the smoke pipe from three joints of four-inch tile, and the meat box from a large packing box. As will be seen, the meat was swung from sticks placed across the box, in two-inch holes, bored for the purpose. The top of the firebox had several small holes punched in same for providing a slight draft to the fire. The fire was built of dry cobs, and green hickory wood, and the cover replaced. The lard can, tile, and goods box were used simply because they were the only thing handy, and are, of course, not at all necessary to the successful operation of this smoker, and no doubt if one had time, other material could be

ow, to Penshurst Farm on Premier Betty

Thornber, Carthage, Ill. Champion sow to same.

Duroc-Jersey, grand champion boar, Defender, owned by H. E. Browning, Hersman, Ill. Grand champion sow, to White Hall Farm, E. S. Kelley, Prop., Yellow Springs, O.

Large Yorkshire, grand champion boar, to B. F. Davidson, Menlo, Ia. Grand champion sow, to same breeder.

Horse Championships.

Percheron stallion, Carnot, owned by J. Crouch & Son, Lafayette, Ind. (Immediately after winning this premium the stallion was bot by W. S. Corsa, Whitehall, Ill., for \$10,000. Champion mare, Amorita, owned by Maasdam & Wheeler, Fairfield, Ia.

Cyldesdale Stallion, Robt, A. Fairbairn, Westfield, N. J., on Gartly Pride. Mare, W. L. Houser, Mondovi, Wis., on Princess Fortune.

Fortune.
Shire stallion, Dan Patch, owned by Truman's Pioneer Stud Farm, Bushnell, Ill. Champion mare, Wrydeland's Sunshine owned by same breeder.



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Removes Bursal Enlargements,
Thickened, Swollen Tissues,
Curbs, Filled Tendons, Soreness
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Cures Spavin Lameness, Allays
Pain Does not Blister, remove
the hair or lay the horse up. \$2.00 a
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bottle) For Synovitis, Strains, Gouty
eumatic Deposits, Varicose Veins, Varico
lydrocele. Allays pain. Book free.
mins. 9.6.f. 268 Temple St., Springfield, Mass,

COB MEAL.

The writer has had considerable expehorses, cattle and hogs, and his experience of its feeding value is not so favorable as some others who have written on the subject. All the animals he ever fed would root it over and try to lick out the kernel part of the meal, which they greatly preferred.

Corn in the ear cannot be ground so and cob are dry. Most farmers have no old corn left in the fall when feeding beutterly impossible to grind corn and cobs The cob retains moisture much grind tough, and if the attempt is made "grumble," and the furrows will glaze the miller had to go away. A cob meal nothing to the farmer, as cobs are not to the animal.—Ed. worth anything except for fuel, and the miller only took a tenth of the grist, including the cobs. The mill was kept in good order, the millstones sharp, and the meal ground as fine as possible, (which, owing to the moisture in the cobs could not be very fine), and the miller was honest but gradually the corn and cob custom fell off, and in the course of two or three years had ceased entirely. The case was the same with every mill in this part of the country, and I do not know of a single mill that now has the machinery for grinding corn in the ear, but they all have corn shellers, and shell the corn of their customers free of cost, if ground in their mills.

What was the cause of this abandonment of feeding corn and cob meal? The farmers having given it a thoro trial became fully convinced that the feeding value of cobs was so little that it did not pay to have them ground for feed and that the ear could not be ground as fine as shelled corn. The advocates of cob-meal admit that cobs contain but very little, if any, nourishment, but believe their value consists in making the ration more bulky, and by filling the stomach of the animal better enable the digestive organs to act upon it to better advantage and extract more of its nutrients.

I heartily agree with them that grain feeds will do horses and cattle more good when rendered more bulky and porous, by a mixture with some kind of fodder of lower feeding value. Professor Henry says: "Corn cobs from well matured corn can certainly have no greater feeding value than oat straw, for example." For cattle, I prefer cutting up cornstalks, or good bright straw, and after moistening it with water mix the corn meal (with some wheat middlings added), to stick some wheat middlings added), to stick the corn meal fast to the mess. In the absence of middlings, I have a little rye, supreme Court has affirmed the decision or oats ground with the corn to stick it of the straw so that all must be fast to the straw so that all must be reaten. This has been my practice and which reduced to the interstate commerce commission the interstate commerce the interstate commerce commission the interstate commerce that it is the reduced to the interstate commerce the commerce of the interstate commerce commission the courts are successful to the court of the case had been in the courts nearly fifteen years, the United States are commercially commerced to the court of the cou

The cob, with the exception of the pith in the center, and a few hulls, is comthe hair or lay the horse up. \$2.00 s bottle, delivered. Book I D free.

ABSORBINE JR.. (mankinds1.00 bottle.) For Synovitis, Strains, Gouty or Rheumatic Deposits, Varicose Veins, Varicocele, Hydrocele. Allays pain. Book free.

W. f. TOUNG, P.D.f., 268 Temple St., Springfield, Mass,

THE FEEDING VALUE OF CORN AND undesirable looseness, as I have seen. It does not require strong spectacles to discover the little circular hard discs. Try whittling a dry cob and you will find rience in feeding corn and cob meal to those substances hard as hemlock knots. J. W. INGHAM. Pennsylvania.

There is a marked difference in the conditions which suround the milling business, as well as all other manufacturing businesses, at the present time as compared with several years ago. This writer's experience in the feeding of cornand-cob meal seems to have been confine as shelled corn, even when both corn fined to the days when the old mill stone was still in common use. But the inventive genius of young America has been gins, and have to commence feeding the busy with this problem, as well as many new crop as soon as husked, when it is others, and the old mill stone has been replaced by modern and specialized matogether and grind them as fine as they chinery, better adapted to the grinding should be to obtain their full feeding of corn and cob meal, as well as that better adapted to the manufacture of longer than the grain, which makes them high-class flour. At many of our experiment stations corn-and-cob meal propto grind fine, the millstone will begin to erly ground has been found to be of equal value, weight for weight, with corn meal over with a sticky paste, and the min in the feeding of farm animals, as here-will go slower, and slower, and unless tofore noted in these columns, and where the stones are raised and allowed to the proper facilities are at hand and their grind coarser, will choke down with a full corn is in a proper condition many farm-head of water on the wheel. I am not ers, dairymen and feeders are now findguessing at this. My father owned a ing it to their advantage to grind the grist mill, and I sometimes tended it when cob with the corn. In other cases this is not practicable, and the individual craze broke out in this part of Pennsyl- feeder is the best judge of the practical vania about 40 years ago, attracted a adaptability of this plan, under his congood deal of attention at the time, ran its ditions. So far as the feeding of the course, and died out. At the suggestion cob being injurious to the animal is conof his miller, and the solicitation of his cerned, we believe there is no well foundcustomers, my father built an addition ed fear. The condition and thrift of the to his mill, put in an extra water wheel, animal is the best guide in this respect, and procured the best machinery for since the thrifty animal is surely not sufcrushing the cobs, and grinding corn in fering from any damage to or derangethe ear. For a time it seemed to be a ment of, the digestive organs, which con-profitable investment. He ground the dition is certain to manifest itself in the corn for his regular customers, and at- appearance of the animal. Many good tracted custom from other mills to such feeders in this state now feed shock corn an extent that the other mills had to put year after year with good results, and in the machinery for grinding corn in the western practice of feeding broken the ear. The additional cost of grinding or sliced ear corn could not have endured the cobs with the kernels, was really if the feeding of the cob were injurious

#### LIVE STOCK NOTES.

Michigan farmers would like to buy many thousand more feeding lambs, as the feeding proposition seems extremely bright this winter, but the supply is not forthcoming, now that the range shipping season is over. At this time feeder buyers have to depend on such half-fat fed western lambs as happen to be marketed from Iowa feeding sections and elsewhere, a good many of such stockmen not clearly understanding the industry, while many of them fail to provide shed shelter for their flocks and are obliged on the appearance of wintry weather to market them, whether finished or not. Such stock comes high in the market, and filling sheds with "warmed-up" stock is expensive. Montana has marketed a two-year "crop" of old ewes during the season just closed, supplies being taken by feeders at comparatively low prices, and they should return good profits if taken good care of. A good many breeder ewes have been sold also, and the breeding industry is growing. Wool is nowadays an extremely important factor in the sheep market, and the high prices paid increase profits of sheepmen materially. The trend of events in the wool business is pointed out clearly by the eagerness of buyers to contract for the spring clip of 1910, and wool growers who make such early contracts are likely to regret it.

A prominent Chicago live stock commission house, with branches at other important markets, says: "We are receiving many letters from parties who have cattle in partly-fatted condition asking whether it is advisable to market the same in the immediate future. We unhesitatingly and with all confidence, say No. The chief trouble is that too many cattle feeders are of the same mind at this time—they want to liquidate their offerings in half-fat or two-thirds fat condition. The wise and cautious feeder will break away from the crowd this winters those who short-fed their cattle have won out, as against losses for those who finished theirs. But all signs indicate that the pendulum will swing the other way."

After the case had been in the cour

eaten. This has been my practice, and which reduced terminal charges for live which reduced terminal charges for live from \$2 to \$1 a car, the charge being collected as a part of the thru freight rate. This has been the subject of no dition. Cut straw is certainly worth more as feed, and will digest better than cobs.

John Gould, an authority on dairying, has suggested that the value of cobs lies in their potash. Truly, cobs contain considerable potash, and do does sawdust, but nobody thinks of feeding sawdust for the sake of the potash.

The cob, with the exception of the nith. charge and not to the terminal roads

# Cooked Feed Saves the Stock They Thrive & Fatten

The experience of practical stock men and farmers everywhere proves that cooked feed is best for winter feeding. Makes the stock fat and sleek; prevents disease; is the safest, surest way to save your stock.

Hog Cholera and other stock diseases are unknown where

# HEESEN Feed Cookers

are used.

The Hesen Food Tooker is the simplest, most durable and practical feed cooker on the market. Lasts a life time. Small first cost and lowest cost to operate.

Heats quick with any fuel; large feed door takes big chunks of wood; lacket made of one continuous sheet of steel; no joints to admit air. No foundation needed—sets right on the ground.

foundation needed—sets right on the ground.

A necessity for cooking feed for hogs, poultry, horses, sheep. Invaluable for heating water; boiling syrup; rendering lard; scalding hogs, etc. All sizes, 15 to 75 gallons; full capacity guaranteed.

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## **Prairie Stock Farm**

Traille Stuck Faill.

The Leading Horse importers in the State Of Michigan, we have opened the eyes of all Michigan horsemen by our large exhibit at the State Fair. In the previous issue of the Michigan Farmer they gave the startling news of our wonderful success, not alone over our Michigan exhibitors, but-over all exhibitors of the several States that were represented in competition. We won every prize in the stallon and mare classes except the 4th prize in the 2-pear-old stallon class. All our horses are now at our Barns ready for sale for less money than a good horse can be bought elsewhere with a guarantee that has stood the test for the past 33 years. Come and be convinced. Terms to suit purchaser.

E. Metz. Horse Importing Co...

E. Metz Horse Importing Co., Niles, Mich.

#### **DUNHAMS' PERCHERONS**

Fourth large importation within the year arrives November 23rd., which, added to our present stock, offers intending pur-chasers the finest collection in America. If you want the best horses, horses with bone, quality, size, action, and best breeding, stallions or mares; if you
want fair and liberal treatwith good merchandise, visit Oaklawn.

Catalog shows the place and the horses. W. S., J. B. & B. Dunham, Wayne, III.

# Symptoms of Worms



Your horse has worms if he has any of these symptoms: Nervousness, itching, rubbing tail, rough coat, hide-bound, dandruff, unthrifty condition, bloating, dusty rectum and passing worms.

DR. FAIR'S NEW WORM REMEDY is given in feed—it kills worms in two ways; by suffocation or absorption, but never hurts the horse or brood mare.

60 Horse Doses Delivered \$1.00 DR. FAIR VETERINARY REMEDY CO., W. C. FAIR, V. S. 5712-14 Carnegle Ave., Cleveland, O.

The German Kali Works have talked Potash and its benefits for twenty-five years. They have never sold a pound direct to local agents or farmers.

You know how hard it was to buy and get Potash. Things have changed. The mines are now producing enough to enable us to offer

# TASH FOR SA

In carload lots of twenty tons, to local dealers without interfering with the requirements of those to whom we have sold Potash to be used in mixed goods. We have, therefore, established a Selling **Delivery Guaranteed** Agency in Baltimore, Md., and in 1910 will sell all potash salts in carload lots for cash, direct from the mines to the buyers in original sealed bags, or kainit in bulk, at lower rates than were ever before quoted.

Potash Pays You can buy the real potash salts-plant food without filiers or make-weights-you save all the money you have been spending for interest, freight, excessive profits on fillers and mixing charges.

For particulars and prices write to

# GERMAN KALI WORKS, Continental Building, Baltimore

# DO YOU Feed YOUR Stock? Holstein Frieslan Cattle

Certainly, and it costs you money. Why not save on your feed bill, and secure better results? Have the effect of June pasture in mid winter, more milk, butter, flesh, etc., and better health for the animals. Will give better results than bran and cost animals. Will give better results than bran and cost less money

Forty minutes from the clean-washed sugar beet to the perfectly dry sacked Beet Pulp. No weed seeds. Roots are great for all classes of live stock. Dried Beet Pulp is better and costs less money and labor. Dairy cows will gain in their milk flow.
Animals will do better. You save money and that is what you are interested in.

Try it in place of bran, you cannot lese and you will gain by trying it.

Supply will soon be exhausted for this year so order of your dealer at once, if he cannot supply you, write

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Sales Agent for Michigan Sugar Co.

# KENTUCKY MAMMOTH JACKS.

Registered Mammoth Jacks, Saddle Horses, Trotting and pacing stallions. 260 head to select from. Catalogues are now ready. J. F. COOK & Co., Lexington, Ky.

ONE good, young registered Percheron mare (in foal) and one stallion coming one year old.
M. A. BRAY, Okemos, (Ingham Co.) Mich.

WANTED—Pair heavy, registered Percheron mares with colts and bred again. State weight, price, with or without colts, and particulars. John B. Martin, 98 Monroe St., Grand Rapids, Mich.

PERCHERON STALLIONS. One 4 and one 2 years, recorder, reasonable prices. T. M. Southworth & Son, R.13, Allen, Mich.

# BREEDERS' DIRECTORY.

# CATTLE.

### ABERDEEN-ANGUS.

Herd headed by UNDULATA BLACKBIRD ITO \$3836, one of the best sons of PRINCE TTO 50006, and Grand Champlon Bull at the Detroit and Grand Rapids Fairs of 1907, 1908 and 1909. Herd consists of EFICAS, Blackbirds, Prides, etc.
WOODCOTE STOCK FARM. Ionia. Mich.

A BERDEEN-ANGUS and POLLED DURHAM BULL Bargains. Choice registered Show Bulls. Blue-blooded pedigrees. No reasonable offer refused, The Clover Blossom Farm, Port Austin, Mich.

AYRSHIRES—A Dairy Breed of much merit, young stock for sale—also Berkshire Pigs, and ten varieties highbred Cockerel Eggs in season. Mich. School for the Deaf, Flint.

REGISTERED GUERNSEY COW due to At freshen Dec. 29th, 1909. Also Chester White sows and gilts bred for March and April farrowing, for sale. WILL W. FISHER, Watervilet, Mich.

Maple Ridge Farm Breeders and Importers of high class Guernseys. Write us your wants. E. & J. T. MILLER, Birmingham, Mich.

# LONG BEACH FARM. 40 HOLSTEINS All Regis-tered.

4 Young Bulls - One \$30; three at \$45; one at \$100. F. S. KENFIELD, Augusta, (Kalamazoo Co.) Mich.

# HOLSTEINS

Butterboy Ella De Kol No. 49509 is for Sale.
Also three extra good bull calves, 5 yearling helfers,
8 good young cows. Must be sold before winter.
L. E. CONNELL, Fayette, Ohio.

HOLSTEINS—Choice Bull Calves and yearling bull at \$50 to \$75 each. I. M. SHORMAN. Fowlerville, Mich.

HEREFORDS: Both sexes and all ages for sale. Also Poland-China hogs. R. E. ALLEN, Paw Paw, Mich.

# Jersey Bulls, Cows and Heifers Island and St. Lambert breeding. A'so some choice grade helfers.

DUROC JERSEY SOWS Choice individuals and popular blood lines. Inspection invited. Full information cheerfully furnished. If you cannot visit our farm at once write BROOKWATER FARM, Ann Arbor, Mich.

A. W. MUMFORD, Manager.

Northern Grown Jerseys.
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BUTTER BRED JERSEY BULLS FOR SALE.
CRYSTAL SPRING STOCK FARM,
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Pure St. Lambert JERSEYS and some nearly pure. CLARENCE BRISTOL, Fenton, Mich. R.F.D.No.6.

# LILLIE FARMSTEAD JERSEYS

We have some splendid young bulls for sale. Some of them are old enough for service. They are from cows with records of 300 to 425 pounds of butter last year. Write for description and prices.

COLON C. LILLIE, Coopersville, Mich.

TERSEY BULL CALF born Mar. 13, '09. 2nd carf first calf as 2-year-old, fine individual. THE MURRAY-WATERMAN Co., R. 6, Ann Arbor, Mich.

DAIRYBRED Shorthorn Bull Calves For Sale Also a few helfers, good notes as good as cash (Citizens Telephone). J. B. Hummel, Mason, Mich

# TOP NOTCH HOLSTEINS.

Top Notch registered young Holstein Bulls combining in themselves the blood of cows which now hold and have in the past held World's Records for milk and butter-fat at fair prices.

MCPHERSON FARMS CO., Howell, Mich.

HOLSTEIN FRIESIANS headed by Canary B. Rock cockerels. W. B. JONES, Oak Grove, Mich.

BOARDMAN STOCK FARM, Holstein Cattle. JACKSON, MICH.

Has more imported Holstein-Frieslan Cows
than any farm in the Middle West. Registered
BULL CALVES of the most fashionable breeding. 30
fine, registered, Duroc Jersey sows due to farrow soon.

EXTRA good SHORTHORN BULL 9 months of the most fash for the most fash s. J. BELCHER, ROLLIN, Lenawee Co., Mich. strains. C. S. BARTLETT, Pontiac, Mich.

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# PARSONS OXFORDDOWNS Hornless delaine, Black tops. ROMEYN C. PARSONS. Grand Ledge, Mich.

Oxford-Down Sheep and Polled Durham cattle for sale. A. D. &J. A. DEGARMO, Mulr, Mich.

OXFORD DOWNS A few good field rams for sale. H. J. De GARMO, R. No. 1. Clyde, Mich.

#### **OXFORD DOWN EWES** bred to imported rams for sale at farmers prices. B. F. MILLER, Flint, Michigan,

Rockland Farm Delaines—A few choice rams for the 1909 trade. Prices right. D. E. TURNER & SONS, Mosherville, Mich.

FOR SALE-Registered Rambouillets. 30 THOS. FLETCHER & SON, Chelsea, Mich.

# 20 RAMBOUILLET RAMS (reg.) left at a bargain. J. Q. A. Cook, Morrice, Mich.

# 10 (Reg.) RAMBOUILLET ewes and 1 ram cheap. A. A. WILSON, Grand Rapids, Mich.

KOPE-KON FARM, Kinderhook, Mich., offers year-ewes and bucks at prices you can afford to pay.

SHROPSHIRES-Rams all sold. Eight good ewes left that a quick purchaser may have for \$75. All registered. Willis S. Meade, R. No. 3, Holly, Mich.

SHROPSHIRE YEARLING RAMS \$16 (sixteen) each. Express paid to quick buyer ROBT. GROVES, (Shepherd) R. D. 3, Pontiac, Mich.

SHROPSHIRES CHOICE RAMS AND EWES.

### SHROPSHIRE HALL STOCK FARM.

Will make special prices for thirty days, on ewes from 1 to 3 years old, all bred to Imported Cooper, and Mansell rams to lamb in March and April, also on very choice ewe lambs, this is to make room for an importation that is going to arrive this spring.

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# LARGE ENGLISH BERKSHIRES. Have a fine lot of spring pigs, both sexes. The type

for profitable pork production. Vigorous and strong and of best blood lines. Satisfaction guaranteed. F. A. BYWATER, Memphis, Mich. Boars-Berkshire-Boars

# Two, weighing 400 lbs. each, one 350, good ones, too, and Cheap. Other smaller ones. They must go at once. Guernsey bull calves, Pekin Ducks, and Barred Rock cockerels. HUPP FARM, Birmingham, Michigan. G. C. HUPP, Manager.

BERKSHIRES Young stock from champion State Fair prize-winners, at moderate prices, M. D. & G. B. Johnson, R. No. 3, Plymouth, Mich.

BERKSHIRE sows bred for spring farrow. Premier Longfellow & Masterpiece families. Extra choice individuals & the best breeding on earth Also 2 very fine young boars. C. D. Woodbury, Lansing, Mich.

# NORTHERN GROWN BERKSHIRES. ROYCROFT FARM, Sidnaw, Mich. Two Boars, do for fall service. A few Gits left. Also a fine lot of fall pigs ready for weaning. Either sex or pairs no kin. A. A. PATTULLO, Deckerville, Michigan.

A DAMS BROS. Improved Chester Whites, Litch-field, Mich., won 125 premiums in '09. Booking orders for bred sows; boars ready for service. Buff Rock, W. Orpington, W. Leghorn cock'ls. Shorthorn bulls ready for service.

IMPROVED CHESTERS. Choice young Boars ready open. Also choice Holstein Bull Calves, of the best of breeding. W. O. Wilson, Okemos, Mich. Both phones.

DUROC JERSEY SWINE, Shepherd Dogs. B. for 15. J. H. BANGHART, Lansing, Mich.

DUROC-JERSEYS-50 bred and open sows, plenly of growth and quality. Boars ready for service. Prices, right. Write J. C. Barney, Coldwater, Mich.

# DUROC JERSEYS CAREY U. EDMONDS, Hastings, Mich.

O. I. C. SWINE—Grandson of Jackson of Chief, the World's Champion and Grand Champion O. I. C. Boar, heads my herd, he is also a grandson of Tutesy, the World's Champion sow. I am sold out of spring and June farrow of both sexes. A. J. GORDEN, R. F. D. No. 2, Dorr, Mich.

O. I. C. swine of spring farrow, both sexes. Some Aug. and Oct. pigs. All of right type and breeding. Geo. P. Andrews, Dansville, Ingham Co., Mich.

O. I. C's -50 HEAD of Fine Spring Pigs for Sale, either sex. Large, strong stock. OTTO B. SCHULZE, Nashville, Mich.

O.I.C.SWINE-Spring farrowing, either sex, not akin.
E. E. BEACH & SON, R. 3, Brighton, Mich.

FOR SALE-O. I. C.'s-2 extra good boars. Some choice pigs. Rose Comb Brown Leghorns, April hatch, standard bred, at prices that will move them. Satisfaction guaranteed. J. R. Inskeep, Holly, Mich.

POLAND-CHINAS—Spring and yearing sows bred for spring farrow, They are right and priced right. WM. WAFFLE, Coldwater, Mich.

Poland-Chinas Young sows bred for row. L. F. CONRAD & SON, R. No. 4, Lansing, Mich

BERKSHIRES Unexcelled in breeding. Selected boars, sows and glits. Choice fall pigs. T. V. HICKS, R. No. 11, Battle Creek, Mich. Sired by two great boars boars bred by Peter Monro, the 1000 lb. kind. J. C. BUTLER, Portland, Mich.

P. C. BOARS-Bony, growthy fellows, worth. WOOD & SONS, Saline, Mich.

POLAND-CHINAS—Perfection strain. Ohoice young boars ready for use. Also sows. E. D. Bishop, R. 38, Lake Odessa, Mich.

POLAND-CHINAS—Long bodied, strong boned, sows, bred to choice boars. Send for snap-shot and close prices. ROBERT NEVE, Pierson, Mich.

P. C. BOARS of great quality and of the best breeding. Satisfaction guaranteed. R. W. MILLS, Salins, Mich.

LARGE IMPROVED YORKSHIRES—Young boars vice, \$18. Young sows bred to farrow next spring \$25. Fall pigs either sex \$10. Satisfaction guaranteed. If you want the most economical feeders possible, breed your sows to a Yorkshire boar. Yorkshires are sure to be the most popular breed of the future COLON C. LILLIE, Coopersville, Mich.

the outside of upper rows and inside of lower should be done; also give table-spoonful of ground gentian, a tablespoonful of powdered cinchona, a tablespoonful of powdered quassia and two tablespoonfuls of salt at a dose in feed night and morning. morning.

morning.

Eczema in Sheep.—My sheep and lambs have some sort of skin ailment that causes them to itch and pull out wool and I am anxious to have them cured if it can be done. G. F., St. Johns, Mich.—Dissolve 1 oz. baking soda in a quart of cold water or 1 lb. in each four gallons and apply to skin once a day for a few days. The nicest way to apply it is by pouring on center of belly when the sheep is lying on back. By making the applications in this manner less medicine is required and you will not wet the wool much.

required and you will not were the much.

Hard Milker.—I have a heifer that came fresh last October which is a tough milker. An obstruction appears to have formed in lower part of teat. M. E. R., Wolverine, Mich.—There may be a stricture in teat which needs dilating with a sound, or perhaps you should use a teat opener or else apply extract belladonna once a day.

opener or else apply extract belladonna once a day.

Cat Has Worms.—What can I give my cat to rid him of worms, both for the small white worms that come from the rectum and for the long brown ones which he vomits up? He has been troubled with them for the past 30 days. M. E. C., Pontiac, Mich.—Give cat ½ gr. santonine and ½ gr. calomel at a dose daily for three or four days, then discontinue and repeat. It may be necessary to double the dose of santonine to effect a cure.

Spasmodic Colic—Indigestion.—I have a 4-year-old horse that appears to have periodical attacks of colic, but seldom shows any sickness when running on grass, but always does when eating clover or corn fodder. At times he appears to be dull and dumpish, at others nervous and uneasy. C. S., Gowen, Mich.—You had better change his feed and try to figure out what kind of food causes his sick spells. Give ½ oz. ginger, ½ oz. blearbonate soda and ½ oz. powdered charcoal at a dose in feed three times a day; also salt him well.

Periodic Ophthalmia—Indigestion.—I recently purchased a horse that had sore eyes. The man who sold her to me claimed the sore eyes was the result of aislike poisoning; besides, the horse is in a sort of general run down condition. What shall I do for him? J. C., Shepherd, Mich.—It is rather suspicious to find a young horse suffering from sore eyes and unusual to find the eyes poisoned by alsike. Apply a saturated solution of borac acid with 4 ozs. of extract of witch hazel added to each pint of the solution. These applications should be made to eyes every day, or even twice a day.

Tetanus (lock jaw).—A neighbor of mine had a 3-year-old colt that took sick; his Vet. diagnosed it as a case of lock jaw and advised destroying the colt as he thot it had no chance to recover; then he called another Vet. who took the colt a distance of seven miles to his hospital, did all he could for it, but the colt died in two days. This colt had received two different wounds lately which the Vets. that might have been the point of infection. W. M., Coral, Mich.—Tetanus is always the result of germ infection and the germ of tetanus resides in fertile soil, manure and dust and enters the body by way of wounds, especially those that are on lower part of body. These germs after entering the blood produce a poisonous toxin which acts on the nerve centraction of the body muscles. Lock jaw may result without the animal being wounded. Treatment in such cases is not very satisfactory.

Torpid Glands—Indigestion—Stocking—I

heals.
Atrophy Following Azoturia.—I have a valuable 7-year-old horse that had azoturia last August; since then the large muscles of his hip and thigh have wasted turia last August; since then the large muscles of his hip and thigh have wasted away so much that he gives down in that quarter every step he takes, indicating weakness. I have applied liniments which have slightly blistered, but have thot they did not help much. In conclusion I might say that the horse is fleshy. A. C. A., Walled Lake, Michigan.—Recovery in such cases I have always found comes slow and gradual. I call to mind many cases which I have had in my practice that have taken almost twelve months to recover, but finally got well and remained well. I have obtained fully as good results from stimulating liniments as from blisters. Apply equal parts tincture cantharides, turpentine, aqua ammonia and sweet oil lightly to atrophied muscles every two or three days and feed him oats for his grain ration and some vegetables with his fodder. A little walking exercise twice a day will assist in reproducing the wasted muscles. THE MICHIGAN FARMER.



he Remedy You Can Depend Upon

No other preparation has done as much for the horse and horsemen. Kendall's has saved millions of dollars in horse values for thousands of owners during the past 40 years. It is the quick, sure, safe, dependable remedy for

Spavin, Ringbone, Curb, Splint, Swellings, Cuts, Sprains, Bruises, all Lameness

CURES SPAVINS, CURBS, SPRAINS, MAKES CHEAP RORSES VALUABLE
Galien, Mich., Jan. 6, 1909.

Dr. B. J. Kendall Co.

Dear Sirs: I hesitate no longer in buying horses with Spavins or Curbs, in fact with blemishes of any kind, for I know what your medicine will do. I always make a handsome profit buying such horses cheaply, cure them up with your medicine, and sell them for a grand price. Your medicine can't be beaten.

Respectfully yours, JOS. HAAS, (R. R. No. 2)

\$1 a Bottle—May Save Hundreds WONDERFUL FOR MAN AND BEAST

WONDERFUL FOR MAN AND BEAST
1317A Kentucky Ave., St. Louis, Mo., Apr. 23, 1909.
Dr. B. J. Kendall Co., Enosburg Falls, Vt.
Dear Sirs: In regard to your Spavin Cure, I must say that it is one of the best medicines that was ever put on the market for sale. I have been using, if for the last three years in my stable, and find it one of the best I ever tried for every kind of lameness or sore. It is a wonderful remedy for man or beast. I advertise your remedy every time I have a chance, because I know what it will do.

Yours truly, HUGO KING.

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Accidents will happen and the greatest "First aid to the injured" is the old standby, Kendall's Liniment. Sold by druggists everywhere at \$1 a bottle, 6 for \$5. Prepare today for the emergency of tomorrow. Stop at the druggist's and be sure you get Kendall's. Ask for a copy of "A Treatise on the Horse and His Diseases," or write direct to

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# Destroys Worms—Increases Your Profits

It's at marketing time that you reap the full benefit of feeding Sal-Vet. It rids your stock of worms and all worm troubles—prevents loss of lambs by parasitic infection—enables you to raise healthier lambs, finer sheep with more wool and better mutton. Especially effective against stomach worms in sheep.

### We Prove it Before You Pay — Send No Money

Sal-Vet saves your shoats and enables you to raise big hogs. It makes bigger steers and puts cows in condition to give more and richer milk. It will keep the digestive organs of all your stock in perfect condition, so that what they eat goes to make profit for you.

Animals cannot fatten and thrive when they have worms. These parasites eat the feed that should go to nourish the animal. Get rid of the worms—Sal-Vet kills worms. It will put your stock in prime condition and keep them immune from parasitic infection.

Sal-Vet is a highly medicated salt that is easily fed—the animals take it so readily that with it they doctor themselves. Every cent you spend for Sal-Vet will be returned to you ten fold by your stock.

Feed it to your stock and get the big profits your hard work entitles you to.

PRICES-100 lbs., \$5.00; 200 lbs., \$9.00; 300 lbs., \$13.00.

Testimonial from A. T. Gember, the well-known breeder of American and Delaine Morinos.

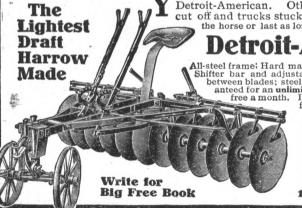
"Your Sal-Vet is all you claim for it. I am pleased to state that as a preventive of worms it does the business; as a conditioner it can't be beat, and is a fine tonic for fitting show stock."

(Signed) A. T. GAMBER, Wakeman, Ohio.

We will send you enough Sal-Vet for sixty days uso Don't pay us if it fails to do what we claim. Just fill in the coupon and mail it to us.

The S. R. Fell Company, Dept. M. F. Cleveland, O.

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OU won't know what a real tongueless disc is until you see and try the Detroit-American. Others are makeshifts—old-style discs with tongues cut off and trucks stuck under in front. They can't do the work or save the horse or last as long—they can't be worth as much to you—as the improved— Or Co. 105 Hallings S. De

Detroit-American 30 Days' Trial—No Money \ Down—Cash or Credit Terms steel frame; Hard maple bearings; Rigid steel adjustable standard; Pipe oilers; iffer bar and adjustable bumpers; double levers; indestructible steel spools between blades; steel sectors. Nothing to break, loosen, or wabble, and guaranteed for an unlimited time—not 5 years or 10 years, but forever. Try one free a month. If satisfactory, pay—if not, return. We take care of the freight in both cases. Buy on credit if you choose,

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Secritor Barrow Get our big, money-saving, free book. See the genuine tonguless disc and note the bed-rock, factory price. Prompt delivery is our hobby. Warehouses at many points, Send coupon or postal now for guide to the right disc at the right price. Also shows the famous Detroit-American Manure Spreaders and Cultivators at cut prices. We sell only direct from factory. Don't let a dealer pretend that he is giving you a real tongueless disc. We never sell dealers, AMERICAN HARROW CO.

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The UNICORN DAIRY RATION has doubled our butter (and milk) yield in a single month. MARION FARM, Mifflin, Pa., Geo. E. Copenhaver, Supt. CHAPIN & COMPANY, Inc., Milwaukee, Wis. Write us for particulars.

TO BE OR NOT TO BE.

That is what we want to know. If to be and you are not yet, send at once for our NEW FREE CANVASSERS' OUT-FIT, consisting of terms, premiums, etc. EASIER WORK, MORE MONEY than ever before. No guessing as to how much our agents are going to make. They can tell at the end of each day, week or month, the same as a salary basis. A free premium with every subscription. An active agent is wanted in territory where we have none now. WRITE AT ONCE.

THE MICHIGAN FARMER,
Detroit, Mich.

Detroit, Mich.

# THE DAIRY

CONDUCTED BY COLON C. LILLIE.

WHAT DAIRYING HAS DONE FOR THE FARMERS OF LIVINGSTON COUNTY.

It is now several years since farmers of Livingston county began to awaken to the fact that if they wished to increase, or even to maintain the fertility of their farms they must make a change in their mode of farming and to this end they began to substitute stock raising for grain raising, but while this was one step in advance they yet realized that it was a slow way of increasing the fertility of their farms for they were still selling the fertility in the soil in the form of live stock which, tho not so rapidly as grain growing, was nevertheless depleting their farms of soil fertility.

Up to this time dairying had been carried on only as a side issue, only enough cows being kept to supply the family with milk and butter, with perhaps a few pounds of the latter to spare occasionally. Early in the 90's a condensed milk factory was established in the county and from this time dairying began to be looked upon as a business in which there was not only a direct profit but farmers began to realize that dairying was the one way by which they could increase the fertility of their farms.

More cows began to be kept on the farms and less grain was raised and the effect soon became noticeable in the larger yields on the majority of farms where this course was being pursued. As the condensary paid for milk by the hundred weight farmers began to realize that in order to get the most profit from dairying it would be necessary for them to keep cows that would produce more milk than those that were being kept, and, as before stated, milk being bot by the hundred weight they naturally began breeding to a heavier milk-producing breed than the Durhams which they were then keeping. The Holstein-Friesian breed became more popular on account of their being capable of producing more milk than other breeds and the breeding of Holstein cattle was taken up by a few farmers as a business until at present there are more herds of pure-bred Holstein-Friesian cattle in Livingston county than in any other county county has been justly named the "home of Holstein-Friesian cattle." The breeding of Holstein cattle has not only benefited the farmers on account of their being capable of producing more milk than other breeds, but with the concentration of their efforts in this direction they have built up a reputation that has spread all over the country until buyers from other states make regular trips to this county for the purpose of buying Holstein cattle to ship to the other states, realizing that. it is much easier to pick up a carload in a community where the breed is so well represented. Buyers from outside are numerous. As a result of this competition breeders secure better prices for their surplus stock than would otherwise be possible. As dairying became more popular, cheese factories and creameries came and today sees very few farmers in this section engaged in the business of breed-While Holstein cattle ing beef cattle. have proven so profitable in Livingston county it is only fair to say that it has been on account of local conditions; other breeds would undoubtedly be found more profitable under different conditions.

The above has only been cited to show what co-operation will do in the stock-breeding business. No matter what breed is selected farmers of a community should co-operate with each other, for where a community once gains the reputation of place because they will be to less expense showing the weight of a cubic foot of silwill have more animals to select from. Co-operation in stock breeding has other advantages also, one of which is that where several farmers in a neighborhood are breeding the same kind of stock they can co-operate in buying a sire to head their herds and with their combined means are able to secure a much better animal than would be possible were they to buy their sires individually. Since dairying has become so popular in this county the farms have gradually grown more productive, larger crops being raised and, as milk is the one thing sought for, farmers are buying more of the concentrated grain feeds on the market, thereby This weuld probably be not far out of the adding much fertility until land that 10 way.

12 years ago was selling for from \$40 to \$50 per acre is today bringing from 30 to 40 per cent more per acre.

Now, if co-operation can do so much for the farmers of a community it would seem policy for farmers to put aside personal prejudices and co-operate with each other even the their personal tastes could not always be catered to, realizing that in co-operation lies their success.

C. C. O. Livingston Co.

#### HEREDITY AND ENVIRONMENT.

To what extent the phenomenal yields of milk and production of butter-fat from some modern dairy cows of all the exclusive dairy breeds is due to heredity, and how much to environment, is a question that probably all will never agree on. Did the power to produce such enormous yields as has been produced by Colantha 4th's Johanna, Jacoba Irene, Dolly Dimple and other great dairy cows come from inherited qualities of their ancestors, or is it largely brot about by development, by the feed and the care which the animal receives. If the quality which enables these cows to produce such phenomenal yields is inherited, why cannot it, to a large extent, be transmitted to their offspring? Has it ever been, and will it ever be so transmitted? My opinion is that this excess above the normal production is largely due to feed and care, environments, while the power to produce milk is a breed inheritance that has been brot about by years and years of selection and careful feeding. To produce milk abundantly and economically is a fixed factor of the race. Now this, however, to a large extent is in every individual of the breed, but it must be developed. I think the same argument will hold with other classes of animals for instance, trotting horses. I do not believe that anybody will argue that Dan Patch inherited all of his power to pace in less than two minutes, or that Nancy Hanks, or any other of the wonderful performing trotting horses inherited all of their power over and above what is ordinarily inherited by the race. But a large part of that is acquired power brot about by congenial environment, by skill in the hands of a trainer from infancy. And so this power to give such enormous quantities of milk excess of the normal quantity produced by the race of dairy cows is largely an acquired ability. It has largely been developed by skill in the feeder. This power in the United States. In fact, Livingston will not be transmitted, to any such degree as those cows possess it, to their progeny and we should not expect it. The ordinary milk-producing power of the breed or race will be transmitted to them the same as to other individuals, perhaps a little more, but the phenomenal yield will not be transmitted, and I am of the opinion that economical production in the future will be the result of skill in development, rather than skill in breeding. There is more opportunity for the average man to bring about satisfactory yields in his herd thru development than thru breeding. It is an intricate problem that only a few, if any, understand. breed characteristics of, say for instance, the four great dairy breeds, Jerseys, Guernseys, Holsteins and Ayrshires, are so-firmly fixed in the race that they will be reproduced in the offspring, almost invariably. By careful feeding and selection, and surrounded by good environment, the inherited qualities can be developed to a considerable extent.

## WEIGHT OF SILAGE.

What is your estimate of the number of tons my silo will hold? It is 38 ft. high, 14 ft. in diameter. It was filled within about three feet of the top Oct. 1, with a good corn and has settled and been fed from, so there is 28 feet left. Hillsdale Co. G. F. R.

The acurate weight of corn silage in raising a certain breed of cattle, outside the sile is difficult to estimate. In King's buyers will naturally be attracted to that Physics of Agriculture, a table is given age at different depths and in different heights of silos. Of course, the deeper a sile is, the more the ensilage is pressed together at the bottom and consequently the more a cubic foot of ensilage there will weigh. Also, there is given in this table the mean average weight of a cubic foot of silage for silos of different depths two days after filling, If your sile is 38 feet high. I estimate that two days after filling there would be about 30 or 32 feet of ensilage and the average weight of ensilage according to the table referred to, would be about forty pounds per cubic foot. The sile now would contain about 100 tens of corn silage, approximately.

The two upper pictures show absolutely all there is to the light, simple, sani-tary Sharples



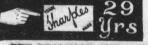
Dairy Tubular Cream Separator bowl. It can easily be washed perfectly clean in three minutes and has twice the skimming force of common bowls. Wears a lifetime. The World's Best.

The lower picture shows a common, disk-filled bowl with 42 disks. Other Other

sorts are about equally bad.

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Tubular advantages. Do you
wonder that Tubular sales exceed most, if not all, others combined? That Tubulars probably replace more common sepa-rators every year than any one than any one maker of such ma-

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We now have ready an enormous stock of the finest silo material, and we are now booking orders for 1910 delivery. Indiana one-piece stave silos have never been equalled.

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The modern dairymen want a Cream Separator that fulfills to the highest degree these three requirements:

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The U.S. is the only separator that combines leadership in all three of these essentials.

The U. S. has received more and higher awards (ac.knowledging its superiority) in 1909 than all other makes combined A request for Catalog 111 will show you all about this thoroughly practical separator and tell you all about our latest awards.

Vermont Farm Machine Co. Bellows Fal



#### MISTAKES IN FEEDING COWS.

A great many farmers and dairymen make mistakes in feeding their cows, both before and after calving. mon practice is not to feed the cow any grain for two or three months before she HOW TO JUDGE COTTONSEED MEAL. freshens. In fact, I used to do this myself because I was afraid of milk fever and hated to have a cow get in anything like the market, when of good quality and una decent condition before she freshened. Since, however, I have learned to control and prevent milk fever, I have no fears in this direction and the grain is not withheld from the cow at all. My belief tinguish, it is of importance that the genis that when the cow is deprived of grain for two or three months prior to parturition, that what you save in the way of grain, you lose in the proper development of the calf. The cow herself, of course. does not need so much food as if she was giving milk. But, while not making milk to draw upon the resources of the food, she is taking care of a rapidly developing fetus which requires more and more nutriment from her the nearer we get to parturition. Consequently the cow should be well fed. A ration without grain is too carbonaceous in character and is not good food for the development of the calf. would not be surprised if the calf is unthrifty when dropped, or if it is not a good feeder later on. I think a cow prior to parturition ought to have from dicates that ground hulls have been adtwo to four pounds of grain a day in ded. If it is a rusty brown color, it indi-connection with what roughage she cates that the meal is old or the material

Another mistake is made in feeding the cow too much grain immediately after calving. Where the cow has been fed a fairly liberal ration just prior to parturition, there isn't as much danger of overfeeding after calving. The mistake usually made is in trying to get the cow up to her full flow of milk too soon. We, many of us, do not consider properly enough that the cow is weak after dropping the calf and that she ought not to be fed a full ration for at least two weeks. If the cow has been having three or four pounds of grain per day prior to parturition, I would cut it down to one-half that amount for the first few days and then gradually increase it so as to get her to a full flow of milk two or three weeks afterward. She ought not to be fed a full ration of grain under three or four weeks. In this way we get by this critical period without impaired digestion, with a gradual increase of milk which will not be subject to sudden shrinkage from indigestion or other cause. I am positive we will get more out of the cow and save her energ'es better than in any other way. The grain ration of the cow directly after calving ought to be a little different, not quite so hearty as the food later on It would be foolish to feed a cow cottonseed meal and oil meal directly after calving. I would prefer to feed them ground oats or bran. Bran is better than the ground oats. The two could be mixed For the first feed or two it would be an excellent idea to have it in the form of a bran mash, which satisfies the cow, soothes the membranes of the stomach and puts her in good condition so far as digestion is concerned, for splendid work later on. A little fussing with the cow for a few days after she comes fresh pays well.

#### GRAIN RATION WITH CORN STOVER AND CLOVER HAY.

Please tell me how to make the cheapest balanced ration out of the following feeds for cows. Have my own corn and oats, worth respectively 60c and 45c per bu. Oil meal is quoted at \$32 per ton; cottonseed meal, \$35 per ton; bran, \$28 per ton; buckwheat middlings, \$25 per ton. Have corn stover and clover hay for roughage.

Van Buren Co.

If you wish to feed your care.

If you wish to feed your own corn and oats, I would mix corn, oats, oil meal and buckwheat middlings equal parts by weight. Then you can feed as many butter-fat in a week, or feed one pound much lint, and lacked woefully in milk grain mixture to eve four pounds of milk given by the cow. These are rules that are practiced by some of the very best dairymen. While it is a pretty liberal feeding of grain, if you have good dairy cows it will pay.

Personally, I would sell the oats and buy some of the other feeds, because I do not believe they are worth the price you quote, to cows. If I sold the oats, I would mix corn meal, bran and buckwheat middlings and oil meal in equal parts. In other words, substituting the wheat bran for the ground oats. I think it would make it a little bit cheaper feed and you would get just as good results. The reason I put in oil meal instead of cottonseed meal is because you have no

succulent food in the ration. If you had corn silage in place of the corn stover, then I think you would make a cheaper ration by substituting cottonseed meal The too com- for the oil meal.

One of the best concentrated feeds on adulterated, is cottonseed meal, but owing to the fact that the poor article can be put upon the market so as to so nearly resemble the best as to be hard to diseral farmer should take the trouble to become posted.

The recent Maine Year Book treats this subject quite exhaustively, and what is here written will be based on the station's findings more than from our own expe-

They say: "All experience goes to show that fresh cottonseed meal can be safely fed to beef cattle, milch cows, and sheep. They say it should be fed in limited quantities: Two to four pounds a day with bran or silage is enough to feed a cow.

They say: "A first-class cottonseed

meal should contain over 40 per cent protein, and about 9 per cent fat. It should be a light yellow color. If it is dark in color with many fine black specks, it inhas at some time undergone fermentation Such meals are not safe to use. The texture of the meal should be about the same as finely ground corn meal, and it should be practically free from cotton lint."

Tests: Lint can be discovered by sifting the meal thru a flour sieve. The lint remains in the sieve.

For lint and hulls stir a teaspoonful in half a glass of water, and let it settle. Black hulls will be at the bottom, good meal next, and lint on top. "A first-class meal should show only a few black hulls and scarcely any lint."

The say also that a good fresh meal can be judged by the taste. "A fresh meal has a very agreeable, nutty flavor not found in inferior goods. The absence of the nutty flavor and the presence of a rancid taste indicates that the meal is

Cottonseed meal they find runs from about 25 per cent protein to 43 per cent and they classify the grades as follows:

"A. The high grade meal, carrying 43 or more per cent protein; bright yellow in appearance, free from cotton and hull, and with a sweet, nutty flavor."

A dark colored cottonseed meal, analyzing not very differently from the preceding, but made from seed that has undergone more or less fermentation."

"C. A medium grade goods which carries considerable cotton and some hull, very good in color but poor in flavor. Such meal will usually carry about 35 per cent protein."

A cottonseed meal of very good appearance, with the hulls and cotton so finely ground as not to be readily detected. This class is, however, lacking in the good flavor of high grade meals. Such meal will usually carry about 25 per cent protein, and because of its good appearance is the most dangerous adulterated meal on the market."

They state the fertilizing value of good cottonseed meal to be \$29, giving as the constituents 6.8 per cent nitrogen, 2.9 per cent phosphoric acid and 1.8 per cent potash.

We had some experience feeding cottonseed this summer which substantiates the above conclusions in so far as one experiment in actual feeding can.

From one mill we had been getting a very bright, high-class meal comparable to that classed "A." Their supply ran out and we purchased some at another place, which would be comparable to class The analysis was good, but the "B." pounds per day to each cow as she yields goods were dark in color, contained too production. From nine conditions exactly the same, our milk dropped an average of a quart a cow a day, or about one ten-quart can on nine cows. The price of the dark colored was twenty cents a hundred lower than the best, but it was another case of where the best is much cheaper when results were considered. This last rule generally proves true.

Aside from the loss in milk, there is a corresponding loss in fertilizing value when one is unfortunate enough to get BOOK the low grade "stuff." Maine.

D. J. RYTHER.

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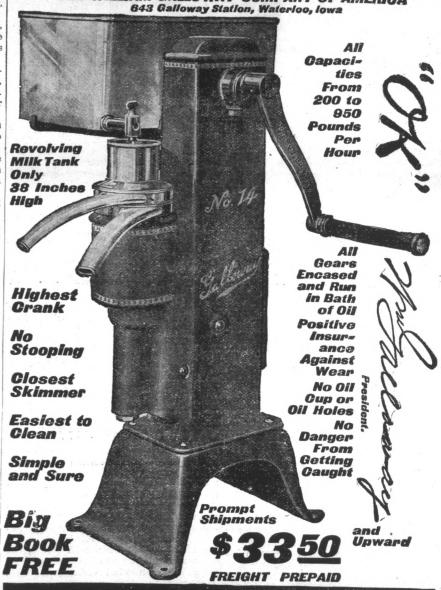
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The Galloway is the easiest to clean, with few parts, which come out easy and cannot get back out of place; easiest to run; high crank; low tank; no high lifting and no "back breaking" cranking. Gets the finest cream qualities—and all of it. No lumps or churning, as Nature's true principle is followed without forcing either the milk or cream the wrong way up or down. Skims closest, in any climate or season, no

matter whether your milk is warm or cold. This handsome machine, compact and substantial, with beautiful finish, cannot be beaten at any price. And you cannot get my new Bath-In-Oil principle on any other separator. Remember, that this is most important. It proves to you why I can afford to give you a 30 years' guarantie because I know that the parts cannot wear the separator out of commission like others do where you have to be remembering to oil them all the time. The Galloway is the only separator into which you can pour oil at the top once a month from your oil jug, or can, and have it oil itself without danger of running dry or ruining it like others. This costs you nothing extra—is worth \$50.00 more than separators built the other way. Remember, that I am an actual manufacturer—not a supply house, catalog house, dealer, or jobber. You get the lowest direct factory price from me every time. Write me today for my big separator catalog and let me quote you prices that will astonish you.

Wm. Galloway, President
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The Lawrence Pub. Co.,

Detroit, Mich.

#### DETROIT, DEC. 18, 1909.

### CURRENT COMMENT.

A Santa Claus in earnest the mere passing happiness of "Merry Christmas" is the text and picture sermon of our cover design.

Behind Christmas is not only the star of Bethlehem but also the purpose and meaning of Christianity as a moving force in the hearts of men.

Our Santa Claus is conscious of more It is the purpose of this comment to show than the transient delights of joyous surprise, the laughter, the jingling bells, the candles, the Christmas tree, the presents. He looks upon the world with larger

eyes, behind which are memory and capacity for deeper observation. Christmas is not a celebration only. It

is a mood, a state of heart, a soul influence and all the effort it invokes is worse than lost, if it extends only from the beginning of preparation therefor, to the close of the day's experiences.

In his picture, our artist seems to say. "Let us have an American type of Santa Claus."

Let us have not a mere Kris Kringle, a Gothic or Lapland sprite nor a mere laughing wood nymph from the snow topped Norway pines but a figure of heart and soul who thinks and sympathizes as well as laughs; one to whom the help-lessness and innocence of infancy are symbolized in the manger cradle from which came the Man of Galilee, carrying in his bosom the sorrows of humanity; who devoted himself utterly to doing good and established, for all time, the motive criterion of human life.

Sweetly the old, old story, Treasured in song and a The babe in the manger Appeals to the gentle heart.

And the life that followed after, Filled with kindly word and deed, Spoke compassion unto labor, And confusion gave to greed,

And lifted up the fallen And brot the haughty down Gave a healing tear to sorrow And to truth a victor's crown.

Many and diverse and surprising are the presents our Santa Claus brings and myriad joys and happiness follow in his perfect the goods advertised.

train. But Santa can not be infallible.

Some of the burdens of the Christmas time are grievous to bear and many will receive who may not deserve according

of Farming.

Farming." These articles are written by success in other lines of business enter- fixed characteristic of our lives. agitation of this subject may have a farm to which the Michigan Farmer is el weekly visitor.

The Reader vs. the Advertiser.

the farm papers?' who say the advertisers pay for it are right, for, of course, the advertiser pays the publisher for the space and enables him to send the paper to the readers at a low price. Those who have given the question more that and say that the and with a thot deeper than readers who patronize the advertiser pay the readers of any paper who do not make a practice of patronizing the advertisers who use that paper too often think they have no interest in this proposition.

them that they have an interest in it.

It is a fact that without the patronage of advertisers no good paper could be published for anywhere near its present subscription. price. Practically everybody knows this and possibly some readers figure that by not patronizing the advertiser they are really getting something out of him, because thru his patronage of the paper they get it at a lower cost than would otherwise be possible. This is just as true as is the fact that a dime held close to a person's eye will obscure a dollar placed just a little further away. The reader who takes this view is losing many dollars and neglecting a valuable educational medium by not paying more attention to the advertisements in the paper which he reads. Any man who has ever answered the advertisements in his farm paper knows this. Kind reader, do you look over the advertisements in this paper regularly and answer those in which you may be most interested? If not, why not? If you have never tried it, you certainly not competent to judge whether it would pay you or not. We know it will pay you, for many reasons. It pays every man to be as well posted as sible on price of every commodity which he uses in his business. It pays everybody to keep up with the progress of the times and to be posted on the improvements and inventions which in America are daily occurrences. The advertiser makes it his business to furnish you with that information, A letter or a postal card will bring catalogs which cost thousands of dollars to make and many more thousands in patient research, and careful experiment to

As a people we are apt to place too little value on what costs us nothing. Just stop to think that the literature which you may receive by writing to any advertiser may cost more in the prepara-

of articles on "The Procrastination is a serious fault and one Business Side of which costs most of us a degree of success which might have been attained had a practical farmer, who has also attained the habit of promptness been a more It is prise and is thus competent to touch upon never a good plan to put off a thing that our comparative shortcomings as a class we ought to do, yet a good many people in the business methods commonly em- do so, especially the little things, yet the ployed on the farm. Various phases of little things may be even more important this subject will be covered in these arti- than the greater ones. A great many cles, which will appear from time to readers of the Michigan Farmer who like time in future issues. Doubtless some of the paper and are not at all in doubt our readers will be able to throw inter- as to whether they want to take it longer esting side lights on this problem, and we or not, put off renewing their subscription trust that they will feel free to submit until they miss one or more numbers of their ideas on any phase of it which may the paper. More than likely in so doing be under discussion, to the end that the they have missed seeing articles which would have been of particular value to wholesome effect in the betterment of the them. The time for which a great many business methods employed upon every readers have subscribed, expires on January 1. The date tab on your paper will indicate whether you are one of these or The question is often not. If so, it is a good time to put the asked, "Who pays for above motto in practice by renewing all the advertise- at once, so that all annoyances of this ments published in character will be avoided. Among those There are all man- whose subscription will expire on January ners of answers to this question. Those 1, are a large percentage of readers who say the advertisers pay for it are who have taken the paper for a few months on trial. If they have read it carefully, we believe they will want to become permanent readers of the paper.

Our long term offers of five years for \$2.00, or three years for \$1.50, are made for the benefit and convenience of the the cost are also right, because, if the permanent reader. By taking advantage advertising did not pay, it certainly would of one of these offers, a large cash saving not be continued. But that portion of will be made and free premiums of proportionate value may be had, the same as with a yearly subscription. The reader who has been taking the Michigan Farmer on trial should remember that he has not yet seen it at its best. During the summer season when business is pressing on the farm, we publish relatively small papers, boiling down the contents so as to get a good deal in a small space for the benefit of the busy reader. During the winter season however, we publish much larger papers and a greater variety of practical and entertaining reading. This means that for the succeeding six months, the paper will be much larger and more comprehensive in its every department than during the six months just past. There is absolutely no risk to the subscriber in the long term subscription. The Michigan Farmer is not an experiment, but an established institution whose record makes its future certain. It is stopped promptly at the expiration of the time subscribed for.

reader who does The promptly will be sure to miss some numbers. It is not too early to send in your renewal if your subscription expires on January 1. If the tab on your paper is without date, or is dated "Jan." or "1Jan.0," you must renew or your paper will stop.

DO IT NOW.

### HAPPENINGS OF THE WEEK

Foreign.

King Leopold II, of Belgium, has little hope of recovery from a complication of recumatism and other diseases. His physicians will perform an operation but with little hope of relieving the suffering monarch. The general opinion is that the King will not survive the operation, and the last sacrament has been performed.

Prosperity appears to have come to the

King will not survive the operation, and the last sacrament has been performed.

Prosperity appears to have come to the Holy City, Jerusalem, in that a chamber of commerce was recently organized at that place, a fire department installed and a new town clock purchased.

A fire causing an estimated loss of two and one-half million dollars occurred at Veldivia, Chili, last Sunday evening. Eighteen blocks of buildings were consumed by the flames and thousands of people have been rendered homeless.

The King Edward medal established in 1907 for rewarding acts of gallantry in

to their gifts, and many more who deserve may have no gifts come to them.

Our Santa holds out a gift that is extended to all, and truly "a good and perfect gift."

"Why not the Christmas spirit the year around?"

And the element of "surprise" would not be wanting either.

"May we not let our Santa Claus quote from the "Christmas Builders"—

"May we not let our Santa Claus quote from the "Christmas as a spiritual creation and belongs to the kingdom of the heart.

"It is constructed by the angels of the heart of a child. If it then be a mood, it can be extended by which men and women really live."

The next step will probably be that you far around your name and an answer some at least of the plan and answer some at least of the spirit by which men and women really live.

The Business Side are starting a series of Farming.

The Business Side are starting a series of Farming.

The Christmas is a series of which costs most of us a degree of such artiflet has come to you may be interested in any industry. Micmers of such artifle as twill be worth more to the chaffer on bad for the abd for the charces are that it will be worth more to you his howledge gained, as well as in money saved, than any book which has for the charces of such articles in mines and quarries, has you bub with the will be worth more to you but have look whell as paper your be line disposition to the in the charce of in any fleuries of the charce of the charce of in the scope of the rewards

charged with having performed acts of misteasance.

The supreme court of Panama recently rendered a long decision refusing to grant the request of the United States government to deport one Spiller who was charged with having induced employers to leave the canal zone.

The Argentine legislature is considering the construction of an underground railroad system for Buenos Ayres.

The Russian police have during the past week made arrests of many prominent people charged with publication of seditious documents and correspondence.

National.

Members of various Central American republics gathered at Mexico City last week and passed resolutions denouncing the intervention of the United States into Nicaraguan affairs.

United States district judge of the jurisdiction of Hawaii has telegraphed his resignation to President Taft.

A protest was made to the foreign department at Lisbon by the United States ministry there to the proposed treaty between Portugal and Argentine unless the same conditions are granted to America.

Fourteen men of the native constabulary of the Philippines have been sentenced to death after being convicted of the murder of Roy Libby, at Davo, Mindanoa, June 6.

The records of Dr. Frederick A. Cook, who claims to have been the first white man to resign the North Pole green with the proper in the

the murder of Roy Libby, at Davo, Mindanoa, June 6.

The records of Dr. Frederick A. Cook, who claims to have been the first white man to reach the North Pole, are now in the hands of the authorities of the University of Copenhagen.

The Twentieth Century flyer, the fastest of the New York Central trains between New York City and Chicago, collided with the rear end of a freight train at Northeast, Pennsylvania, Monday night. The flyer was making 62 miles an hour at the time of the accident. Just how many were injured and killed, is not published. One report, however, stated that 20 lives had been taken and scores were injured. The merger of the long distance telephone interests in Ohio is being forced upon the public by the United States Telephone Company charging double rates upon its lines, thus compelling patrons to use the Bell lines instead.

An injunction has been asked of the United States Supreme Court to restrain the national brick layers' union from interfering with the brick layers working upon the \$2,000,000 cathedral being constructed by a catholic society at St. Louis, Mo.

Fire destroyed nearly a block of business howers in Valences learners between the verse.

structed b

Louis, Mo.

Fire destroyed nearly a block of business houses in Kalamazoo last week, resulting in a loss of property estimated at nearly \$1,000,000.

A New Orleans doctor has discovered that the disease called pellagra is being communicated thru the agency of dogs.

Two men were killed on the Chicago & Northwestern Railway by the breaking of the rail which crashed thru the bottom of the car in which the victims were riding.

of the car in which the victims were riding.

Last week was one of the most disastrous in the history of lake navigation from the standpoint of lives lost and property destroyed. It is now believed that 82 perished in the wrecks of the week. The weather conditions tempted owners to prolong their season to a later date than usual and scarcely a line has escaped damage as the result.

There is little change in the switchmen's strike on the northwestern rallroads. It has been hinted that arbitration would be agreed to by the parties concerned in the strike, but no verification of this statement has been received. The board of education of Greater New York has decided to eliminate foot ball from the schools of that city owing to the large list of fatalities shown by the records of the past season.

The military commission delegated to investigate the Brownsville episode which caused so much controversy thru the country during the last national cam-

caused so much controversy thru country during the last national

country during the last national campaign, has just published its findings in which it charges the negroes of the company as being guilty of "shooting up" the village.

The large tin mill manufacturers at Bridgeport, Ohio, have determined to oppose the union men now on strike. Preparations have been completed for the importation of non-union men.

Thirty-five passengers were injuried on

Thirty-five passengers were injured on street car in Indianapolis last Thurs-ay. The car was struck by a passenger

day. The car was struck by a passenger train.

Virginia is erecting a monument in commemoration of the confederate soldiers who fell on the Gettysburg battlefield.

Testimony being given in the sugar fraud cases now before the federal courts, New York City, show that much of the sugar imported into this country was not weighed at all, thru which means it was possible for the sugar trust to cheat the government out of revenue.

# Magazine Section

LITERATURE POETRY HISTORY and **INFORMATION** 



The FARM BOY and GIRL SCIENTIFIC and MECHANICAL

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

# A SPRING POET'S CHRISTMAS-BY HOPE LONG DEFERD.

she came to visit. "Almost as not to give up but to keep up good courtall as her mother. "Twont be long be- age and perhaps it would come someway.

fore she is getting married!"
"No, I 'spose not," laughed Rosamond's

Rosamond looked startled and ran suddenly away. The two sisters kept up a merry chatter of visiting until time for tea. Wanting Rosamond to help her. mamma called her. It was a cry-choked voice that answered her, and the mother ran in haste to the child's room where she found her long slim form thrown across the bed and the eleven-year-old maiden convulsed with passionate weep-

Mamma demanded the cause for the tears, and snuggled the quivering form up tightly. With her scarlet face, wet with hot tears, close to the mother's cheek, Rosamond said bitterly, "I don't ever want to have to get married!"

"Oh, ho, ho!" laughed mamma. "Why it will be years and years and years before you will be old enough to get mar-I don't even want you to have a beau yet for years, so dry your tears and cheer up. You won't ever have to get married. You shall be a lovely old maid all your life if you want to; you can stay a little girl a long time yet and play with dolls and wear short dresses as long as you choose."

"Honest true?" anxiously asked Rosamond. Upon being reassured she gave a great sigh of relief and the world took

on a look of new hope.

Poor little girl, she and mamma were alone in the world, and, not knowing a father's care, her knowledge of men, nearer than Professor Wright, the principal, and Rev. Green, the minister, and the grocery boy, was very circumscribed, and none of these was calculated to stir her matrimonial ambitions.

Freed from the awful cloud which had fallen upon her, Rosamond's spirits reacted promptly and she fell to getting supper with light steps and a lighter heart.

A few days after this incident Rosamond took on a great fondness for the big mail order catalog, and that heavy book came to open of itself at the toy department. At last one day she asked her mother to say what she thot of this plan: As long as she was to be a little girl a good many years yet, she would like to get a great big doll. Then she could sew for it, and while she was doing that she would be learning to be a dress maker, and as soon as she was thru school she could be earning money. All her old dolls were worn out and so small that one had terribly trying times to put sleeves in their waists, and here was a beauty, with real hair and eyelashes, and kid body, and joints, and "big as a real

Mamma was interested and looked appreciatingly at the description, but she looked doubtful when she read the price. I am afraid, dear, that it is about all mother can do to get things for her dolly girl, let alone buying such a high-priced

"Oh, I know, mamma. I don't want you to buy it. I will earn the money myself, and five dollars isn't so very willows by the river were just beginning write down the beautiful thots that come

but so awfully big when you come to

dreamily, for it must be confessed that rapturously. soon count up."

money would come from me after all?"

EAR me, how Rosamond has Rosamond's disappointment was so evi- yes. I know all about it. Only a touch grown!" exclaimed Aunt May when dent that her mother hurried to tell her of 'spring poetry." age and perhaps it would come someway. feels to be a poet?"

Rosamond said no more about it, but in her dreams at night and air castles but only a few can find the words to tell by day she saw the magnificent big doll. their feelings."

One day in the early spring, when the

"Yes, I think most people feel poetry

"O, do you know that if I could only

Mamma started out on quite a lecture on verse making. Not that she knew "Poetry, oh dear me. Is that how it much about it herself but, after a day of lonesomeness, it is good to talk to almost anyone about almost anything.

"You must make the end words sound alike and that is called 'rhyme.' each line has a certain number of groups of syllables which makes it have a kind of tune. That is rhythm. See, you take this: 'Mary had a little lamb' and say it in little bunches of syllables—Ma-ry—had a—lit-tle—lamb."

Rosamond caught the idea and promptly determined to become a poet.

For days she reveled in an ambition altogether artistic—art for art's sake but one day, born of her cherished ambition to own the big doll, and hopeless, nearly, of finding any way to earn its price, a sordid hope seized her. If once she could write those lovely thots and "send them in" as mamma did her stories, why shouldn't she some day get a letter addressed to herself and containing a nice courteous statement and a nicer check? She could, and would, and the efforts which art impelled were doubled by a tangible aim.

A new situation confronted her. Should she tell mamma? Never in all her life had she held a secret, but 'twould be so fine to surprise her. And she divided herself between imagining her mother's pleasure at learning of her brilliant daughter's success, and trying to appear perfectly natural with such a load on her mind.

The days were on and Rosamond's writing tablets were out. She grew quite silent and mamma noted that her standings were dropping off. She was sleeping badly and mamma began to question anxiously.

"Yes, yes, I am all right; honestly true, I'm not sick. No, I'm not the least bit hungry." And she seized upon the big dictionary and searched feverishly, but with evident disappointment. She began her music lesson absent-mindedly. In the middle of her practice she jumped from the stool and flew up to her room, and when she reappeared was in a state of exuberant joy. Her moods were most

It was sweeping day, and back in the closet, hidden in a corner, was a pasteboard box which, when the cover fell off revealed a mass of papers. Among them were a number tied together like a booklet. The title page bore the inscription

POEMS

BY ROSAMOND GREEN.

The next the dedication "TO MY SWEET GERALDINE."

Upon the first page was a neatly drawn wreath surrounding a poem of two verses entitled "Sunrise and Sunset." It began with a plain statement that

"Sunrise is a lovely scene." This was followed by the declaration

makes all sight keen," the rhyme all right, if the meaning was somewhat hidden. The next verse de-

"Sunset is a glorious sight And it always comes at night." A fact which no one would dare dispute. The next page showed a longer effort entitled

Signs.

When the birds begin to sing That's the sign of spring.

When the swallow builds its nest Then is summer weather's best. When the leaves begin to drop

Then the summer'll stop. When the trees are bare Autumn's no longer there.

# CHRISTMAS EVE

# BY ALONZO RICE.

Along the cities of the plain the darkness settled down, And starry night began to weave her fair and shining crown; But one of all that starry host was brighter than the rest, And shone with splendid beauty that the fainter ones confessed. The Wise Men of the East beheld, and followed it from far,. 'Till over peaceful Bethlehem stood still the wondrous star That shone within the dome above to guide them where He lay. Whose kindly love still reaches us, thru ages far away; And so this eve, by faith, I see that fair and shining light, The dearest in the coronal upon the brow of night!

Across the sweetly sleeping hills and down the quiet glen, I hear the message now of "Peace on earth, good will to men," And thru the song that starry choir is singing, soft and clear, Is drifting up the chime of bells on Santa Claus' deer; For all the world is hushed to rest and wrapped in slumber deep, And on the child's expectant eyes falls soft the down of sleep, And only in the land of dreams he hears the merry sound That tells him surely Santa Claus is on his yearly round.

But hanging from the mantel where the fading embers glow, Is seen a pair of tiny socks, well darned at heel and toe;. A note for Santa Claus is there upon the mantel shelf, Unseen by any other but a poet-like myself.

"December," it was dated, "twenty-second, nineteen-nine.

The mail will soon be closed; excuse this haste of mine, And bring to me the things that now I ask you for, and say Do not forget the little boy that lives across the way!

"I want a sorrel hobby-horse, with mane and tail just so, A saddle and a bridle and a whip to make him go; want a monkey on a string to slide like it was greased, want a sweet canary that will sing when it is squeezed; I want a top-the humming kind-that plays a tune or two, America, Kentucky Home, or Sweet Marie will do; And when you bring my presents 'round on Christmas eve, I pray, Do not forget the little boy that lives across the way!

"So harness up your reindeers, and your furry cap now don, And I shall close my letter.

From Your Great Admirer,

P. S.-I've changed my mind about the horse; I want an iron grey, And don't forget the little boy that lives across the way!"

I know in very truthfulness it would not do at all To let him know his Santa Claus was even six feet tall; A gruff old bachelor, to boot, and plodding hereabout; So I must walk upon tiptoe or he will find me out!

His wishes are all laws to me; his dictates I'll obey, And not forget his little friend that lives across the way. The horse is here, the monkey, and the singing top and all; I fancy I can hear his voice resounding in the hall. He will be happy when he wakes; for me, can skies be dim, To think I am his patron saint, beloved-unknown by h

to turn yellow and the brown grass in to me-"Not much when you come to spend it the fence corners was turning faintly green, and the bird songs and gay sun- mamma. light filled the air, Rosamond's soul "Well, I have a plan. I can work and thrilled with the sense of it all, and at quickly. earn the money," she said, somewhat the end of the walk homeward she cried her ideas of how the money was to be it is! I can't tell you how it makes me vain, or writes their beautiful thots for earned were very hazy. "I could charge feel; something inside just sings, and I others without having something as you so much for doing dishes, and so feel all swelled up. I want to say some- 'pay.'" much for everything I do, and it would thing and don't know any words. Was on count up." it so lovely last spring? What makes "Yes, but don't you see that really the me feel so?" Mamma laughed appreciatively. "Yes, match somehow, don't they?"

"You'd be a spring poet," laughed

"Why couldn't I?" gasped Rosamond uickly. "Poets get paid, don't they?" "Possibly, but not always in money. "Oh, mamma! how lovely No one ever dreams lovely dreams in

"Don't you 'spose I could?" "Why don't you try?" said mamma. "How does it go. The verses have to

# THE MICHIGAN FARMER.

Now tell me which one is best And then I'll let you rest. The next was an appeal to Violet.

Violet, oh violet blue How I love you. (Others do too).

The robins are here, The skies are clear. Where are you, Dear?

next was clearly suggested by Whittier:

The Last Snow Storm.

The snow had begun in the dawning And was trying, O silently trying, To cover the old canvas awning,

While the chilly wind kept sighing. Each effort seemed to grow more laborious, and scattering sheets showed many attempts and subsequent failures to voice Some reached the spirit of inspiration. musically into the second line, then broke want of a word to rhyme. In some the theme seemed to wear itself out in one.

Rosamond's mother read them all thru with smiles and tears, for she read much I was going to buy it myself." more than Rosamond had written. The language Mother Nature speaks to her ment. listening little ones thru the flowers, the storm all was understood again as in her own childhood, and she smiled as she recalled her own literary dreams of girlhoòd.

As she replaced the papers carefeully, sighing a little at the thot that she had that was just what you did?" not been allowed to share the poet's dreams, she that wistfully of other dreams she knew she had not been able to make come true, and felt a pang of sadness as she that of Rosamond's ungratified longing for the big doll. But she came back to the same conclusion-that she simply could not afford it.

went back to Rosamond's poetry, an idea came to her and she went about her came a valued contributor.

work with a new haste to get it finished in time for some pleasant task.

When she was at liberty she went to Rosamond's box and, choosing some of the best, she used them as illustrations again abroad in the land, having superin an article upon "The Poetry of Childhood," which she prepared with a de- with the usual suddenness of transition, lighted interest.

magazine and a few weeks brot a note of past is already almost forgotten in the its acceptance. Shortly before Christmas preparatory bustle of the holiday to come. a letter containing the statement and check came.

with some left to stock a generous workbox with sewing accessories and an elaborate supply of short lengths of muslin, lawn, calico, and ginghams, and even silk-enough to assure the beautiful Geraldine a magnificent wardrobe.

After Rosamond's first outburst of joy over her gift, she cried regretfully, "But, mamma, you should not have afforded it.

"How?" asked mamma with amuse-

Rosamond colored and hesitated. stars, the moonlight, the rain and the know you will think it foolish, but you remember what you said about poetry? Well, I was trying—" But the thot was too presumptious to be named and she stopped in confusion.

"Would you believe it if I told you that

What the explanation failed to do in convincing the small author the reading of the article did, and her wonder and delight were unbounded.

The best part of the story is that the article which gave Geraldine to her mother introduced its writer to a new world of usefulness and profit, since the One day, not long after, as her mind check was followed by a request for other work for the magazine, and she soon be-

# The Cowherd's Harp.

# By Mrs. M. B. Randolph.

Silent his harp; the roaring wind Shook th' board where th' boar's head

And

mute? Strike the chords of thy sullen lute! Sin my minstrels in songs of cheer. Yule-tide cometh but once a year.

"Sing us a song of sea and gale,
Of pirate ship and viking hale,
Of horse and lance, and chase, and tilt.
And war when swords are red to th'
hilt."

"Strange, my lord, most strange the case; I love the ballad of battle and chase, Yet no song can sing on those stirring

"Hence from the hall, then, cowherd, go!
Back to th' creatures that bellow and
low!

Come no more to darken my feasts; Live thy life with mindless beasts!"

Where wide-horned cattle quietly stood, 'Mong dried grasses chewing the cud. He made his bed; their soft, somber ey Noting his tears in dumb surprise.

Night after night on his couch of hay, Siebert, the songless, comfortless lay. Longing as youth longs—hungry of heart For the gif' of song and th' minstrel's art,

When, lo! One night in his sorrow and shame.
In his dreams a heavenly message The

'Son, sing thou of holy things And God will quicken the harp's dead strings."

Up and down the country-side,
Hither and yon, and far and wide,
Now here, now there, the tale was told
Till it reached the convent's quiet fold.

The mother-love, that lies impearled
In woman's heart thru all the world,
Stirred the soul and won its plea
In heart of her who held the key.

Day by day the portals swung;
Day by day the cowherd hung
On Calvary's tale, till shame and wrong,
Love and triumph, bloomed in song.

Tule again; th' revelling lord
And his blue-eyed barons span the board;

The ale flows white, the boar's head grins, When thus the merry host begins:

grinned;
the Yule-log lighted the sheathed
swords
d the wassail bowl of th' feasting lords.

"Wild the storm; the night is drear;
More need within of warmth and cheer;
Sing on minstrels, sing, oh, sing
Of bravest deeds and fairest things!"

"Churl," cried the host, "why standest mute?
Strike the chords of thy sullen lute!
Join my minstrels in songs of cheer.

Like golden manes their hair they tossed;
Back they smiled on the jocund host;
Took their harps and set them atune,
Clearing their throats for another rune.

They sing of ocean's wide, wild realm, The bird of fate at gallant helm. Of lashing wave and tempest's roar, The viking ship and plundered shore.

They shout with glee—the brawny band— They pass the horn from hand to hand; "Brave, brave," they cry, "but, minstrels, sing Another song of fairest thing."

themes, strike my harp to strains of my dreams."

And now 'tis hero dead in the strife,
And maids who kiss him back to life,
Bearing his soul o'er rain-bow walls
To feast again in th' God's bright halls.

Like babes they smile at the old Norse

tale,
Drop their tears in the dripping ale,
Weshal!" they cry, "Now, now, they sing
Of bravest deed and fairest thing."

A stranger's voice on the tempest's wing:
"My lord, a fairer song I bring;
From wattled hut to chieftain's hall
My harp I've struck for thane and
thrall."

He steps the lighted hall within; The feasting courtiers wink and grin; "Tis Siebert, lord! Oh, bid him sing Of bravest deed and fairest thing."

he rafters ring at the senseless quip; The word is passed from lip to lip; To bravest deed and fairest thing!

Stilled the jest at the harp's first chord; He sings the lowly birth of the Lord; The humble folk who called him kin; The sad, sweet life that knew no sin.

The quivering strings sigh back the pain; They moan and murmur the old refrain Till the matchless love and sacrifice Bedews the blue-eyed baron's eyes.

The last low cadence dies on the gale:
They bow their heads and cross their
mail:

mail: he whisper passes, "Siebert sings Divinest deeds and fairest things"

The embers gild the rafters dim; They clasp the hand and join the hymn: "Glory, praise, and honor give, The cowherd's song will lengest live."

THE TRUE CHRISTMAS.

BY DELLA F. HARMON. The spirit of Christmas time is once the Thanksgiving frame of mind seded and the ceremonial of gratitude for the The article was duly mailed to a good bounties and benefits of a twelvemonth

That the true Christmas atmosphere of "Peace on earth, good will to men" is Its arrival was a two-fold delight to the still a living force, we must not for a brave little woman who wrote it, since moment permit ourselves to doubt, the it was her first effort to gain financial modern pessimists' gloomy gospel to the recognition, and the sum was generous contrary notwithstanding; but that the enough to pay for the coveted Geraldine, pure and glorious light that first shone nineteen hundred years ago across the plains of Bethlehem of Judea is not without an intermingling of rays less clear and fair is a too obvious fact of the age.

When we can hear, as did the writer of this article recently, "Oh, I do so dread Christmas this year! My Christmas debts were never so numerous;" or, "I can't see why Mrs. Blank sent me a present last Christmas. I never gave her anything, but now, of course, I must altho I really cannot afford it;" when the funny-folk of the newspaper world have come to look to the wholesale perfunctory exchange of gifts as their inspiration for all too trite sayings like this from "Puck:" "Swappin' horses is about played out but the swappin' of Christmas presents goes on forever;" when the congestion of the holiday trade is a serious fact to be reckoned with; when, as last year in New York, a church society opened a "bureau"—with a small fee in connection-for the exchange of duplicate, undesired or superfluous Christmas gifts; when Christmas giving has come to be regarded by many as so much of a burden, physically and financially, as to render the approach of the season a time of dread instead of delight, surely it is time to look carefully to the preservation of the true and beautiful significance of the world-wide celebration of "glad tidings of great joy."

Good things are "ketchin" as well as bad ones, and so, if the intelligence of the better elements of our civilization awakens -as sooner or later it always does awaken thank heaven, to any dangerous or unde sirable public tendency-to the fact that the vital spirit of the Great Birthday is in peril of loss, our return to the earlier truer, simpler enjoyment of its privileges is only a question of time.

By all means let us bring always our gold and frankincense and myrrh, but let us not forget at whose feet our gifts are really to be laid.

Let us repudiate any feeling of obligation to give to those who have given to us because they did so, and bestow our gifts as was required of those of long ago, "hoping for nothing in return," re garding our Christmas gift-bearing in its fundamental significance—as a sacramen in commemoration of the Supreme Gift of all the centuries-and striving to keep, for ourselves and others, that real mean ing uppermost in heart and deed.

When we receive a token of good wil in the universal gift-bringing, let us avoid even the mental assumption that the donor has cast bread upon the waters with a "string" attached to insure its return, and when we give let us bestow no gift with the least doubt as to the "more blessed" in the transaction.

Let love, always love, be the impelling cause of our tributes of the sacred sea son, whether it be affection for the individual or the greater, broader love tha includes all humanity and makes of our (hristmas-tide a force for uplift of tho and word and life, the sweet savor of which shall extend to the uttermost parts of the civilized earth.

While, as noted at the outset, thousands all over the world still are happy in the possession of the Christmas spirit, pure and undefiled, the widespread tendency or ignore true values and real meanings cannot be overlooked. The trail of the insidious superficiality of our day and age is over everything, and even our highest ideals of Christian civilization are not safe from its defilement.

Eternal vigilance, as in all good things is the price of the preservation of the true spirit of this annual world-festivar of "peace and good will" and "the giving of good gifts," this rejoicing-time of all the nations together.

### A DUAL MIND.

BY EUGENE C. DOLSON.

His life-work fixed and clear in view, Yet still a dreamer—one who seems To hold his course at balance true Between reality and dreams.

# Michigan Farmer's Club List.

For the benefit and convenience of our sub-scribers we have arranged the following list of papers on which we can save them money. Besides the money, they save the trouble and expense of sending each order separately.

expense of sending each order separately.

EXPLANATION—The first column is the regular subscription price of the other papers. The second column gives our price for a year's subscription to both the other paper and Michigan Farmer. The third column gives the price at which the other paper may be added when three or more are ordered. Example: We will send the Michigan Firmer and Detroit Semi-Weekly Journal for \$1.55. If, for instance, McCall's Magazine also is wanted add it at 40c making total \$1.75. Any number of papers may be added at third column price if they are for a subscriber to the Michigan Farmer.

If you want the MICHIGAN FARMER THREE YEARS and the other papers one year add \$2.55. We do not send samples of other papers. Address the publishers direct.

Send all orders to the Michigan Farmer or

Send all orders to the Michigan Farmer or hrough our agents.

Send all orders to the Michigan Farmer or through our agents.

We will take your order for any publication you want whether listed or not. Write for rates.

NOTE.—So long as a subscriber is on our list for one or more years he may order at any time any publication at third column price. So that a three or five-year subscriber does not lose the advantage of the reduced price if he wants any other paper next year or the year after.

Subscriptions ordered to Canada require postage. Write for rates unless postage is known, in that case include with order. Postage on Michigan Farmer alone to Canada is 1 cent per week.

SET OF PURICATION

	NAME OF PUBLICATION.	tion above.							
1	Daily, (6 a Week.)		1		8	B	\$		
1	Journal, Detroit. Mich on rural route	2	50	3	25	2	55		
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	Times, Detroit. News Grand Rapids, Mich. Courier-Herald, Saginaw, Mich., (inc. Sunday) on R. R. News, Cleveland, Ohio.			2	00	1	50		
	Courier-Herald, Saginaw, Mich., (inc.	2	5(	2	30	1	60		
	Sunday) on R. R News, Cleveland, Ohlo	2	00	2	60	1	85		
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7	Tri-Weekly, (3 a Week.) World, New York, (8 a week)	1	00	1	45		75		
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	Journal, Detroit, Mich	1	00	1	35	8	75		
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	Blade, Toledo, Ohio	1	00	1	05	1	35		
	Commoner, Wm J. Bryan, Editor,		31						
	Lincoln, Neb		00		35 00	0	65		
f	Harper's Weekly, N. Y	-2	UU	-	vo	0	00		
9	Cattle, Sheep Swine, Poultry, etc. Americ'n Poultry Journal, Chicago(m)		50	1	05	1	35		
9	American Poultry Advocate, Syracuse,		300						
	N. Y. (m)		50	1	05		35		
e	N. Y. (m). American Sheep Breeder, Chicago (m). American Swineherd, Chicago, (m). Farm Poultry Boston, Mass. (s-m). Gleanings in Bee Culture, Medina, O.	1	00 50	1	50 05		80 35		
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-	Kimball's Dairy Farmer, Waterloo	1	40		05	1	25		
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9	McCall's Magazine, N. Y. (m)	1	5	0	1 1		40		
S	Mother's Mag., Elgin, Ill. (m)	·I	5	0	1 1	0	50		
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g	Little Folks, Selem. Mass. (m)	1		П	1 5	U			
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Those subscribing for the Michigan Farmer in combination with other papers are allowed premiums just the same as if the order was for the Michigan Farmer alone. One premium only for every Michigan Farmer order. Orders for other papers alone will receive no premium under any circumstances.

"We can't get along without the Michigan Farmer. It is a great help to us. I think every farmer should take it."—Mrs. Harriet Smith, St. Ignace, Mich.

### A Mutual Benefit.

About two years ago I bot one of your sewing machines and it has proven satisfactory. I would not be without it, and would have no other, so I got Mrs. Wm. Gaudy to buy one from you, a \$19.00 one.

Yours very truly,

Mrs. Wm. BARG,

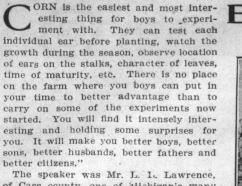
Attica, Mich.

### Satisfied Poultry Advertiser.

A. Franklin Smith, Ann Arbor, Mich., who has been advertising poultry, in renewing his order for 1910 says that "his advertisement in the Michigan Farmer is one of the best paying ads he has."

# THE MICHIGAN FARMER. BOYS VERSUS CORN.

BY JENNIE BUELL.



of Cass county, one of Michigan's many farmers who are studying crop growing on their own farms with such help as they can get from farm papers, experiment station bulletins, institutes, corn exhibits and such "home courses in agriculture." He was talking to a group of Allegan county boys who had brot to the county seat samples of corn they had grown, to be judged by Professor Jeffery, and to receive such prizes as any of them were entitled to under the terms of the "Allegan County Boys' Corn Contest."

Boys' corn contests have become popular events in this state under the promotion of various organizations. The combination of corn and boys for the sake of the boys, as indicated by the speaker quoted above, is being found a desirable one. In several counties the corn growing plan is being initiated by the county commissioner of schools, in others by public-spirited men who are interested in boys, in others by the farmers' institutes, or Granges, or Farmers' Clubs. The Allegan boys' contest, occurring November 20. was promoted by the County Young Men's Christian Association working thru its

local branches, the schools and Granges of the county. The hearty co-operation of Commissioner Thorpe and his teachers made it possible to lay the plan before all the boys of the country schools. Five hundred and twentyfive of them signified their intention of entering the contest. At least one hundred of these are known to have grown one-eighth

of an acre of corn each, doing all the work necessary themselves, altho only forty-one, on the contest day, came forward with their exhibits and reports.

This contest was encouraged as similar ones are in every community where they are held, by substantial prizes offered by men who are interested in the corn, or boys, or both. In the Allegan contest, seven out of fifteen Granges put up onethird of the prize money, to which the County Grange added \$5.25, showing that as organizations their interest was somewhat enlisted during the first year. The county committee of the Y. M. C. A. made

up the remainder. In awarding the prizes to the boys who





showed the best samples of corn, Profes- fully recognize and appreciate that fact." sor Jeffery urged boys another year to

Professor Jeffery stated that the grand. bring their corn, even tho they felt sure father of one of the Allegan boys said it would not win anything. He said, "Up that his boy had done the work on his

Wexford county the other day, sixty corn alone and raised 22 crates of corn boys brot in their ten ears of corn each on his one-eighth of an acre, which is to be judged. In that show there was one one and one-half times the average yield exhibit that consisted of two red, three for the state. He pointed out that the white and five yellow ears of corn-all value of such an exhibit is very, very one boy had. Another boy's corn plainly great. It inspires them to follow intenshowed that the frost had caught it when sive and intelligent methods, demonstrates



Prize Corn Grown by Allegan County Boys the Past Season.

the kernels were but in the milk. Now, for themselves what they can do and leads those boys knew that they would not take them to try other crops. a prize, and yet they had the courage to show what had resulted from their summer's work. Boys, it took grit to do that, in the face of the possibility of being laughed at. There was no prize offered for grit; so when I announced the awards I told the boys that I had bot two jackknives, and I was going to leave those knives with the president of the Boys' Club with instructions to give them to those boys as a recognition that grit is good thing to cultivate; and I wanted those boys to remember, whenever they used the knives in the field or woods, that they stood for something better yet, which they might carry with them always,

One father said to the County Secretary of the Y. M. C. A .: "I that I knew how to tend corn, but my boy taught me something." Another said: "I am going to buy all the corn the boy raises, not only to encourage him, but I, too, have gained from the experiment and am willing to pay him for it."

"Teaching scientific farming," said W. H. French, of Lansing, who was also present, "tends to redirect and revitalize life. The purpose is to change the attitude of young men and women toward farming. A corn contest inspires you to be a winner, and the purpose of an education is to lead you to your niche to be Grit is worth more even than good corn, a winner. Interest a boy in the farm in and I want you boys to know that we some scientific way of growing crops;

then you can get him to read and seek for knowledge himself."

Mr. Lawrence, in answering some of the boys' questions, cited them some of his own experiences in trying to improve his corn. As an example, he told of planting a row of 50 hills from each of 25 ears of corn and in the fall making a record of the number of good seed ears selected from each row. "You will be surprised if you try something of this sort," he said to the boys; "for instance, from the ear of corn that I classed as my best, I only got four or five ears, while some of the others yielded six to ten-fold as much. I advise you to try planting kernels from the tip, the middle and the butt of an ear and see what you get. Work it out for yourselves. It will be of much more value and fun to you than for me to tell you all of my experience."

This exhibit was said by Professor Jeffery to be, as a whole, more uniform than any other he had seen in the state. He explained to the boys that a corn judge, in passing upon an exhibit of this kind. must look beyond the corn to the exhibitor's ideal. From the ten ears of corn shown he could tell what ideal the man or boy who selected them had in his mind. Perhaps he had followed this ideal in choosing seven of the ten ears but "fell down" on the other three. He recommended that the exhibits which won the first and second prizes in Yellow Dent and the first in White Dent be sent to the National Corn Exposition at Omaha, and this was done. The boys whose corn was awarded prizes are as follows: Yellow Dent, 1, Levi and Edw. Miller; 2, R. C. Rawlins; 3, Harold Semon; 4, Harold

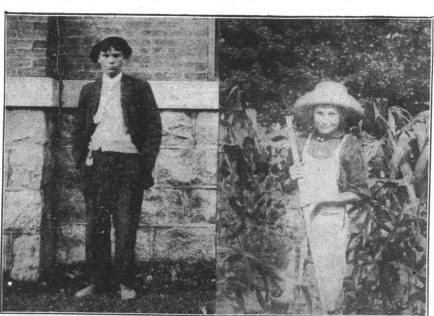
Odell; 5, Guy Hewitt. White Dent-1, R. C. Rawlins; 2. Jas. Hall; 3, Raymond Long; 4, Albert Boyce; 5, Ralph Thorp. Popcorn-1, Clifford Wheater; 2, John Volker; 3, Lawrence Knoblock; 4, W. McKee; 5, Raymond Long. Red popcorn— 1, Clifford Middleton. Reports of work-1, Ruschack Etoll; 2, Ivan Taylor; 3, George Kurtz.

The lad whose report

was judged to be best is one of two Syrian brothers who exhibited corn and whose pictures appear beneath the title of this article. His report shows that he "disked, rolled and dragged the soil three times before planting;" "cultivated seven times," and "learned that you must keep in the field with the cultivator and not cultivate too deep."

The boy who won first on popcorn reported that he "hoed it twice, cultivated it seven times;" "the birds ate some of the corn when nearly ripe and the cows ate half a shock;" but still he "raised 81/2 bu. on his one-eighth acre."

Among difficulties encountered by these coming men in their corn experiments were "wet weather," "frost," "drouth," "chickens," "cut-worms," "a big cherry (Continued on page 527).





Four of Allegan County's Young Corn Growers who Declare that they Have Profited from the Season's Experience and are Anxious for Another Try.

# THE ORTEGA GOLD

BY HOPE DARING.

Synopsis of Preceding Chapters.—Ortega Ranch, an expansive and one-time prosperous estate, among the foothills of California, is forced upon the real estate market because of neglect and lack of management on the part of the aged Senor Ortega. Full of resentment, the old Spaniard and his daughter Carina, are obliged to take up their abode in an adobe hut on a five-acre plot not covered by the mortgage. A tradition to the effect that an early ancestor had sold a portion of the ranch and hidden the resulting gold about the place is held responsible for the senor's apparent want of energy and aggressiveness. The ranch passes to two young men from the east, Guy Cross and John Martin, cousins. Both are anxious to make of it a paying property and a comfortable home. The belligerent senor refuses to welcome them as neighbors, and his daughter, altho recognizing the injustice of her father's views, humors him by maintaining a like attitude. However, an accident to one of the cousins shortly after their arrival causes Miss Ortega and her faithful Indian servant, Wana, to offer their services, the former mounting her pony and riding for a doctor while the latter extends first aid to the injured man. Under the doctor's care Guy Cross recovered and the incident led to a better understanding between the occupants of the two houses, altho the senor continued to treat the cousins as intruders. One day, a short time after, Carina's pony came home riderless and the servant, Wana, was obliged to ask John Martin to go in search of her. and the servant, Wana, was to ask John Martin to go in search of her.

Chanter IV .- Down by the Sea.

John urged his horse to a trot. He knew the way to Cypress Point well. There a rocky ledge was thrust far out into the ocean. At high tide the waves swept over the trail that led out to the point, but the extremity of the ledge was high above the water, even in a time of storm. At one place on the promontory there grew a half dozen cypress trees, gnarled and bent.

"Carina is so good a horsewoman that Nacha could not have thrown her," John thot as he drew rein near the ocean. The mist shut the stretch of water from his view, but he could hear the sound of breaking waves.

He pushed on. Suddenly Dick stopped. John leaned forward. "Ah, the tide is Well, Dick, old boy, there is not much more than a foot of water, you must brave it."

Dick entered reluctantly. The water proved deeper than John had thot, but he guided his horse thru it. They went on for a few paces, then the rider suddenly drew his steed to a stop.

"What is that? It is-yes, it is Carina singing.

He sat still. The singer was not very far from him, but the fog tended to make her voice sound far away. Softly she sang:

"Sweet and low, sweet and low, Wind of the western sea, Low, low, breath and blow, Wind of the western sea!

Over the rolling waters go,
Come from the dying moon and blow,
Blow him again to me:
While my little one, while my pretty
one, sleeps."

The sweet voice ceased. A moment longer John sat still. Then he called, unconsciously using the name by which he had come to think of the girl.

"Carina! Carina!" After a moment's waiting he repeated Back to him, thru the billowy folds of the mist, came Carina's sweet "I am here, in the shadow of a

great rock, to the right of the path." was but a moment before John reached her. She was sitting and did not attempt to rise but said: "It is Mr.

Martin. Did you come for me?"
"Yes. Wana was frightened when Nacha came home, riderless. Are you injured?

'Slightly. You know how gentle Nacha is, but as we rode out here the fog was is, but as we rode out here the log was home for his bride, while I work out my hurt or even anger you, but when he once drifting in. A dog came barking down home for his bride, while I work out my hurt or even anger you, but when he once understands, he will be grateful to you, the rocks, and Nacha bolted sideways, throwing me to the earth. I fell with my ankle doubled under me. It is only a bad sprain, tho, and Wana will cure it

in a few days." You shall go home "I am very sorry. at once. Are you suffering intensely?"

"It does not pain me greatly, unless I attempt to move it. There is a little pool of water here among the rocks, and I have applied a cold compress, using my scarf for a bandage."

carefully as I can and carry you home."

Carina started. "The tide! I fear it will cut off our going."

"Do you mean the water that covers the path? It was not more than two feet deep, and Dick did not greatly mind it." She threw out her hands. "But it con-

tinues to rise. For about an hour every afternoon that path is impassable.'

"Perhaps it is not too late for us to escape," and John turned away, to ascertain the depth of the water. It was only a few minutes before he returned to say, "We must wait, Miss Ortega. The water is rushing across the path so violently that Dick would be carried off his feet. I regret the delay."

"It matters only because Wana will be worried. Mr. Martin, how am I to thank you for coming to find me? You see, Wana could not come, for I had made her promise me that she would never leave my father alone."

John had unstrapped a blanket which he had rolled and carried before his sad-He spread it upon the ground, then lifted Carina upon it, deftly adjusting the folds so as not only to shield her from the damp air but also to make her position more comfortable.

"I fear I hurt you, but you will rest better now. Do not feel that you must thank me; I am very glad to be of service to you, as you were to us the day Guy was injured. How did it come about that you were singing? Was it with the hope that your voice would be heard?"

"It was hardly that. I realize that the sea's voice is much stronger than mine. I sang to keep my courage up. Sometimes the sea is my good comrade, again it is my source of strength. It was this last to me today, because I needed strength so sorely."

"Does it not frighten you a little to It think of the immensity of it all? stretches far away into space, on and on."

"Yes, but it is free. And it is ever the same in one way, ever the same scope and power. Sometimes it dances in the sunlight, again it trembles with storm's rage. It has many moods, but they are no more diversfied than is the pathway of a single life."

"You are right, Miss Ortega, yet you are young to learn the lessons of life's changes. Pardon me, but it is too hard a lesson for a woman."

"I think it is a woman who learns You see, not all life's hardest lessons. women are shut round by the protection and love of a home, as you thot when you spoke. But I am not complaining. See! The fog is lifting. I think we will have a fair sunset."

A little longer they talked of the sea thee, and the clouds. In something John quet- For thou hast trod, O patient heart of thine, A little longer they talked of the sea his cousin, and Carina said with a smile: "I liked him; he told me so frankly of 'the little girl' whom he hopes to bring to your home."

and I am sure they will be happy to-To see a woman at the head of gether. living."

"It may surprise you to learn that I are you to get me home?" ina's voice trembled a little, and her eyes avoided John's gaze, altho she went on bravely. "You are doing some of the things I used to dream that we might one day do. With two masters at the ranch will you always agree?"

"In essentials, yes. Already we have learned that in some things we do not think alike. For example, Guy would like to build a new home for his bride, a house which he thinks would be more in keeping with her and his ideas of what home should be. As for me, I think the present ranchho re, restored and fitted with a few modern improvements, would be the ideal home for this country and climate. When I can afford it I will forward, leading Dick. buy Guy out, and let him make a new own ideas at Ortega Ranch."

"I am glad you like the old there. My mother-I wish, Mr. Martin, part of a different life from yours." you could have known her. everything to my father. For him she forbearing. As soon as you are safe at had given up everything that the world home I will ride for Doctor Encino." calls good. Hers was the stronger nafather's dependence upon her, she hid it to do four your cousin, and I feel confiin her own heart. The only regret that dent that she can attend to my ankle." "I will lift you upon Dick's back as she ever expressed was that she could not arouse him to exertion. She used to slowly along. Carina was very pale, and

"Oh, it is true. The gold was hidden,

father had thot it necessary to make the ranch pay. It was as if they were sure the gold would be found and the finding would smooth away all money diffi-culties."

"Perhaps it will be found yet," John said, a note of earnestness in his voice, notwithstanding the smile that curled "Do I need to tell you, Miss lips. Ortega, that, if it is discovered by the present owners of the old place, it will be at once handed over to you?"

A smile brightened the girl's pale face. "You do not need to tell me that; I know it would be so. But I never think of the gold now, save as one of the illusions that has led the Ortegas to ruin. O look! There comes the sun.

While they talked the fog had lightened and lifted. A fresh breeze had sprung up, and that hastened the going of the mist, which had changed from a dull and heavy gray veil to a shimmering, silvery cloud. The sun was near the western horizon. Suddenly it flashed out, and the golden and opaline-tinted splendor of the western sky was reflected in the gently on the bed. undulating sea.

For a few minutes the two sat in silence. Then Carina turned her face inland.

"See the soft glory of the golden haze over all of mesa and mountains! O, the beauty of this sunset land! On the heights above us, and in the valley back of them, tomorrow's sun will awaken thousands of poppy blooms. ifornia poppy the poet says,

'Thy satin vesture richer is than looms Of Orient weave for raiment of her kings.' I love it all."

For a single instant John Martin laid his hand over the girl's slender one. "I believe I understand. You are a part of this fair land."

"Yes. I told you I sang today to keep my courage up. It is not always so Sometimes I come down here for strength, that I may tread the uncertain path of my present with fortitude. But once Doctor Encino need not come; Wana can here, or hidden away among the foothills, I straightway forget all things in the joy of life."

"It is because you can so forget that "Is she resting now?" you get your needed strength. Pardon me, Miss Ortega, if I speak plainly on a personal topic. I think you are the bravest person I have ever met, for I understand something of the burdens you are bearing, the uncertainties you are facing. And your voice does not falter as you sing your song of life. You

'Sing it in shadow—tho thy whole life long No wreath of bay e'er be entwined for

One fearful moment with eternal truth—
If somewhere, softly, on an unseen shrine
Thy song is sung."

Again silence fell between them. They "He hopes to bring her this fall. Ruth gazed into the glowing west until the interest. Saunders is a sweet and winsome girl, sun was very near the horizon line. Then Carina held out her hand.

"Thank you, Mr. Martin. You do unour table will make life seem worth derstand. Now I think the tide has receded enough so that we can do so. How

am much interested in the improvements "On Dick. I will walk by your side. that you are making at the ranch." Car- Nay, it will not inconvenience me, not "On Dick. I will walk by your side. even to pass thru the water, for, as I had been out in the wet grass before Wana called me, I had on rubber boots. All I regret is that, be as careful as I

may, you will suffer from being moved."
"I can bear that," she said gravely.
"Physical pain is not life's greatest ill." John led Dick close to the spot where Carina sat. Then, after arranging the blanket, he lifted her to the saddle, The girl's white face contracted with pain, but no murmur escaped from her

lips.
"I must take you straight home I think, even if my presence does anger your father," John said as he started

"Yes. He may say something that will altho his pride will prevent his expressing said Carina simply. "It is all the home I his gratitude in a fitting way. Do not know. As a child I was supremely happy blame him too much, Mr. Martin; he is

"I know, and you can trust me to be

"We must let Wana decide if that is

Little more was said as they moved say that the story of the Ortega gold had her lips were tightly compressed. John laid a blight upon his life." spared her every pain that he could, and "She did not believe the story was thru it all she was aware of his sympathy, tender, firm, yet unspoken.

They met no one. The sun had dropped

but doubtless it has been discovered and below the western horizon, leaving the

carried off by robbers. What mother sky a calm tranquil sea of light. When meant was that neither my father nor his they reached the ranch, John opened the gate and led Dick straight up to the old adobe house, the front door of which stood ajar. At the sound of Dick's hoofs Senor Ortega same forward. One glance,

and his worn face flushed angrily.
"What does this mean? You intruder. has he dared harm you?"

"Nacha three."

ankle so that I could not take a step,' "I was far out on the girl said wearily. Point Cypress and would have had to stay there, perhaps all night, had not Mr. Martin come to my rescue.

"But it was his fault, I know it was

Leave at once, you presuming cur!"
Wana appeared, and it was to her that John turned, making no reply to Senor Ortega's hot words. "I will bring her in. If, after you have examined the sprain, you find that Doctor Encino is needed, come for me, and I will go after him."
He lifted Carina in his arms. Her

father started forward, but John walked on, following Wana thru the main room to a little chamber where he laid the girl

"Forgive him, and thank you," she murmured.

He saw that she was sick and faint with pain. For an instant he bent over

the bed, looking straight into her eyes "I am glad that I could do this for you. Send Wana to me later, for I must

hear from you. Good-by." He strode from the room and the house. Senor Ortega would have stopped him with some petulant words, but he passed on with only a bow.

#### Chapter V.-Senor Ortega's Anger.

It was an hour later when Wana came to the ranchhouse. Guy and John were seated at the dinner table when the Indian woman appeared in the doorway of the dining-room, unannounced. She held up an envelope and, as she crossed the room to lay it before John, said: "It is to say that the senor asks your pardon. do for the blessed senorita. In a few days the ankle will be well."

"I sincerely hope so," was John's reply.

"She sleeps. This day Wana was glad that you were here, for the senorita needed you." And the old Indian woman

vanished as silently as she had come. "Read the letter, John," Guy said with a laugh. "I am anxious to know if our good Senor asks your pardon as disdainfully as did Wana. We are intruders, but, if the senorita needs us, even Wana will tolerate our presence."

John opened the envelope. In stilted language Senor Ortega thanked the young man for bringing Carina home. He apologized for ordering John to leave, but there was no word in the note that could be construed as an expression of friendly

"And I hoped that your gallant rescue of the distressed princess would be a flag of truce," Guy cried. "I say, old man, it's hard lines that we can't be friends with Miss Carina. I wish it for the sake of the little girl. It will be lonesome for her when she comes.

John nodded and devoted himself to his dinner. He had related the events of the afternoon to his cousin, but he had no wish to discuss Carina, not even with

The next day John saw Wana gathering lettuce from the little garden which she had planted and tended. He leaned over the fence to ask:

"How is the senorita today, Wana?" "She slept well, and the swelling is gone."

"Is there anything I can do for her?" "No. If there was, the Senor Ortega would not let you do it," and the old

woman went back to the gathering of the crisp fresh leaves for her salad. John was not one to give up easily.

On returning from a ride to the village that afternoon he crossed a long rocky spur of wooded land and entered the valley where Carina had said the poppies grew so freely. It was as she had saidvast stretches of ground were covered with the beautiful flowers which the Spaniards had called Cup de Ora (cup of gold).

The young man gathered a great sheaf ture, but, if she ever grew tired of my necessary. You saw what she was able of the blossoms. He selected them with care, taking only fresh and perfect flowers and selecting those of different shades. Some were of a deep orange, while others were lighter in hue, and still others had the lighter edge of the petals of a paler tint than the center. them he gathered a quantity of the pale green, fern-like leaves.

> Upon reaching the ranch John found (Continued on page 528).

#### THE WINTER ROSE.

BY RHODA BYARLAY HOPE.

Old Winter's here with all his joys, His pleasant fires, his games and toys, His outdoor sports, his frosts and snows, And e'en the famous Winter Rose. This product of the wind and cold Can ne'er be purchased, never sold; It beauty gives the face of youth And health proclaims, this is the truth; It seems quite transient, yet its hour Is longer than the summer flower; Oh welcome, rosy, lambent, fire, Thou spark of Life, we thee admire.

#### TO WAKE YOU UP IN THE MORNING.

BY I. G. BAYLEY.

or less interested in making things, trait of character parents will do well to encourage.

The contrivance shown in the illustra- rabbit come out of a bush that the hawk

tion will be found not only useful, but easily constructed. In the recess of the bedroom wall, supupon port brackets, B, B, a 'ength of curtain pole, marked A, in the cut.

Just above the pole, suspend from the ceiling, a tray or waiter, or an old-fashioned door bell, by means of two screws, C. C. Immediately under these, put four short rods of wire or strong wood, pole. thru the crossing each other right angles.

strips of wood, make three levers, F. G, and H. and secure them to the wall by means of large wire nails, I. J. and K, which, for obvious reasons are not in the centers of the sticks.

At the other end of the pole, A, suspend a weight, L, by means of a strong cord. The weight can be an old clock weight, or even a common brick wrapped and stitched up in a strip of carpet.

An ordinary weight clock, after the "Cuckoo- clock" pattern, completes the list.

Before retiring at night, the weight, L, is wound up, and the trigger, E, brot in contact with the lever, F, and incidentally the other levers, F, G and H.

The location of the clock in relation to the lever H, will depend upon the time of day the boy wishes to awake, and must be found by experimenting, since the weight of the clock reaches a certain position at a set hour.

Should the room have no recess as indicated in the cut, one of the brackets, B, must be made to project from the wall at right angles, sufficiently far to allow the pegs, D, to clear when revolving.

### A CUNNING CHICKEN HAWK.

BY J. W. GRAND.

Sitting in the shade, among some bushes, and well secluded from view, this past delightful summer, my chief object of interest was a very rapacious chicken hawk. I never had my hands on him, and I suppose he did not even know I was there. He would have been rather undesirable as a pet, for his talons were formidable, and his curved beak, his fierce amber eyes and his splendid wings belonged to the wild, free air and the dizzy heights above. He was a cruel rascal, but he killed only what he and his little ones needed to eat; and the same cannot always be said of men.

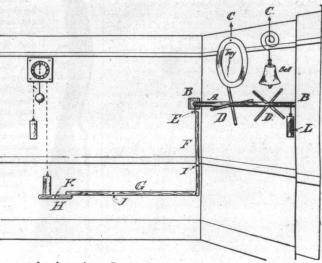
This murderer was a hawk, with feathers russet red, and of wing, together with wonderful ease in darting, wheeling, dropping straight down or rising almost perpendicular from the ground. Among all the birds I watched I'm dreadfully tired of dollies, this summer, this gentleman was the most graceful and knew just what to do with his wings.

A little way up from the farm house was an old field, grown up with thick clumps of bushes, and this was his favorite hunting ground. Sitting in my secluded place, I watched him come out for his morning chase, flying negligently over first as the he were simply out for an relation and was not thinking about breakairing and was not thinking about breakfast, sometimes sending out the clanging

harsh cry broke the stillness, a frightened not be endured long. The chicken commotion became visible in the open cover and here and there went a scurrying rabbit, crouching at last under the shelter of a bush where they felt that

their enemy could neither see nor reach them. But the rascal was not thru with them yet, no indeed. Having frightened them into hiding, he went deliberately to work to frighten them out again. Down he dropped upon any clump of bushes where he had seen anything hide, and in a moment he was hovering over it and beating the branches with his wings. possessed with the finest reasoning power, he could hardly have done better.

If the quarry contained a young chicken There are few boys who are not more it darted out in a panic, poor little trembling thing, and sometimes escaped: but if caught it was carried away with scant ceremony. Once I saw a little brown



dropped dead, killed by abject terror. What awful sensations there must have been in bird land when this murderer was him down on the second discharge of my about!

to its shelter and was hard to dislodge. One could fancy it crouched down there the wild beating of its heart, while the and industriously for his living.

cry that strikes terror to all small crea- hawk's great wings were beating over and tures. The moment he appeared, or his around it. Such panic and agony could commotion became visible in the open up and away, gaining the shelter of an-field below. The young chickens fied to other bush, but that gave it only a short respite for the robber was soon after him.

THE MICHIGAN FARMER.

There were times, however, when this hawk's preliminary survey of the field amounted to nothing. Perhaps his intended prey had foreseen warning of his coming and had taken shelter in safe quarters. At any rate, fly over as he might and clang that loud voice of his as he would, nothing stirred in the old field. When I first saw this I wondered what he would do for breakfast.

But this cunning rascal was not wont to sit down with his hands in his pockets and say that the world owed him a living. and wait for someone to bring his breakfast to him. What he seemed to be saying was, "There may be something under these bushes; I'll see," so he began hunt-This was quite different from catching the quarry after he had seen it. It might be somewhere in the field. So he began at one end of the field and went all over it, taking bush by bush in the most systematic manner and beating around every one so fiercely that nothing could escape him.

Sometimes he adopted a different plan. I would look in vain for him, until at last I saw him perched on an old tree as motionless as if he had been carved in stone; and for an hour at a time there would not be a flutter of one of his feath-The little chickens would be quite gay, missing him, and would indulge in all kinds of frolics and gambols, when all at once down would dart the red hunter into their midst, and for some one of them the frolicking would be over.

But one day I concluded that this murdering of the little innocents must stop, so I carried a gun to my place of concealment, but the rascal did not show up for three days. They say that a hawk can smell a gun if it has been fired at Marked D, D, in An Ingenious Boy's Home-made Alarm Clock.

Marked D, D, in An Ingenious Boy's Home-made Alarm Clock.

Thim, Being possessed of the poles of the finally appeared the cut. At the end of the pole, secure was beating, and almost instantly it I bode my time. He finally appeared dropped dead, killed by abject terror, again and got at his old tricks. His time dropped dead, killed by abject terror. had come, so, taking steady aim, I brot gun. He was a beautiful specimen and If a chicken was under a bush it clung measured two and one-half feet from tip to tip of his wings. I had a great respect for this hawk, even if he did kill small, close to the ground, its body shaken by helpless things, for he worked so hard

# A CHANGE OF HEART.

By Lura Warner Callin.

Christmas Morning. Oh, see! what Santa Claus brot me A beautiful Teddy Bear With shiny black eyes and wide-awake

And lovely soft, brown, silky hair.



I don't want mine any more. Il take you to bed with me now, dear, For my old doll was learning to snore,

And she 'sturbs me and makes me dream awrul
'Bout bears, not nice ones like you
But great, big hairy cross ones
With awful big mouths—00—00—00!

So I'll get a good rest, Teddy Bear.

Christmas Evening.

Oh, dear! I'm getting so sleepy!
The sandman has found me, I know.
For I can't keep my eyelids unbuttoned
And my head keeps bobbing round so.

there! I've got to find dolly— wonder if she's run away? y, dearie, you in this dark closet y your lonesome this whole blessed Why, dearie,

Come to muzzer! I feel just like crying, To think of my poor pet off there



Forgotten while I was a-playing All day with that old Teddy Bear!

I'm aching to wash you and dress you
And I'll make you a new gown to wear.
I'm 'sprised at myself but you see, dear,
You can't be 'mamma' to a bear!

# BOYS VERSUS CORN.

(Continued from page 525).

tree falling on it," "crows and squirrels," "blackbirds and raccoon, and groundmole;" while one boy even reports that his corn "was bothered by crows, coons, squirrels and cows," yet he won out and drew a prize. Another boy frankly confessed that "it was difficult for a boy to mark corn ground."

Everyone will concede that a prize was justly awarded for one report which showed that the corn had been "bothered by cut-worms and rooted out by pigs four times;" "that it was not so easy as I that to keep it right," and that contained



A Group of Young Exhibitors.

the remark, "if the pigs hadn't rooted it out so much, I would have stood a better This same brave boy, on the morning of the contest, walked in six miles from his home. At dusk he was seen starting out afoot for home and, in answer to the question if it were not pretty late to start on such a walk, he replied, "Oh, no, I'm all right; anyway, I've got my lantern, if it is dark," holding up the prize which had been given him for his report.

Some of the things the boys stated they had learned were: "That you have got to cultivate when it needs cultivating and keep the weeds out;" "that once hoeing is worth three times cultivating;" "to not cultivate too much but keep the ground stirred and the moisture on top;" "that two stalks in the hill are plenty;" "plenty of fertilizer and frequent cultivation holds moisture and causes corn to ripen earlier;" "that I had my corn too near my father's, so I have some mixed kernels in mine;" "not to cultivate too deep after tasseling;" "that good soil, good fertilizer, thoro cultivation, patience and perseverance will raise good corn;" "how to test, plow, harrow, mark, plant, cultivate and harvest corn;" and "if at first you don't succeed, try, try, again."

To the question, "Do you want another contest next year?" the answers ranged from two boys who voted "No" to thirtynine who replied in one of the following: "Yes," "Yes, sir!" "You bet!"

Last spring when the boys registered, they were invited to come to Allegan and receive special instruction in corn growing from Mr. F. W. Howe, of Washington, D. C., and Prof. Jeffery of M. A. C. One hundred boys accepted this invitation and a few "old boys and girls" came, too. Special printed matter was sent later to all the boys who enrolled. During the season the county Y. M. C. A. secretary, Mr. C. Frank Angell, visited many of the boys, photographed some of them at their work and encouraged them in what they were trying to do. It is now felt that a much greater efficiency can be given the contest next year by securing at least one progressive farmer in each township who will counsel with and encourage each boy in that vicinity. But this movement is only in its infancy. We are as a people just really beginning to take stock of farm boys as well as of corn. Sometime we shall all look at this from the viewpoint of the County Young Men's Christian Association and in this corn im-provement "fad" see the boy back of the corn as of first importance. Not "better corn for corn's sake," but "better corn for the boy's sake," should be the motte of this whole movement.

### They All Like It.

I wish to congratulate you upon the success of the Magazine section. It is quite half the paper. We all like it.—Mrs. Irene Kendrick, Blissfield, Mich.

# THE MICHIGAN FARMER.

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The Michigan Farmer 5 Years for only \$2 THE ORTEGA GOLD

(Continued from page 526).

that the poppies were closed. He placed them in water, carrying them to a spot where the first rays of the morning sun would fall upon them.

On a card he wrote, "From the valley back of Cypress Point," but he added no word to tell who had brot them there. "She will know," he said to himself.

Carina did know, and the act of thotfulness brightened the wearisome day for her. Her ankle mended rapidly; in a week's time she was walking about the house and yard.

John often saw her. Occasionally he stopped in the highway for the exchange of a few friendly words, but he always feared that Carina might be blamed by her father for the interview, brief as it

The land was at its fairest. Roses and orange blossoms loaded the air with frag. The rainy season was over, and rance. not yet had the sun burned the shades of iving green from the hills.

There had been various reasons for the delay about the installation of the border cement irrigation ditches. The owners of Ortega Ranch had tried not to be impatient, for they knew they would have water from their own supply to last for time. However, they were glad when they received notification that the men would begin work the following Monday.

The crew of men for the work arrived early. A tent and a cook had reached the ranch in the night. The tent had been pitched in the shade cast by a group of pepper trees that grew not far from the house. Breakfast was ready for the men when they arrived.

The foreman came up to the ranchhouse for a conference with John and Guy. He was a wide-awake, intelligent fellow, and knew just what his men were to do. The ranch owners had signed a contract with the Hill-land Dam Company, so the young men were free to go about their own work, after a short conversaion with the foreman.

were cultivating the long rows of sweet potato plants that had been set out between the tiny orange trees of the new

The men began the digging of the ditches very near the front of the ranch-They were only fairly under way house. when John heard a call. Looking around "Here's a old cove as wants to see you," the man shouted.

and started for the house. His mind had instantly reverted to Senor Ortega, but should want to see him.

"Can it be about the ditches?" he thot. I remember Marshall telling me that the senor strongly disapproved of any modern is modern."

When John reached the highway he saw Senor Ortega standing bareheaded in the north of Pontiac was in Detroit last sumbright sunshine. He was engaged in earwatched John's approach with a relieved

"Here is Mr. Martin, sir. You better

talk with him." sun is very hot this morning. Will you me?

"It will not take me long to tell you what I have to say," and, as Jose Ortega's eyes rested upon the young American, a quick flash of wrath colored his worn face. "They tell me it was by your orders that this outrage was attempted."

not understand. mean the ditches? If you will give the day and by this agency alone added onematter a little that I am sure you will half to the productiveness of his farm. see that the operations my cousin and I How easy it would be for the farmers to have in hand cannot be carried on with- get the names of leading produce buyers out more water than is afforded by the in large cities and send them a printed out more water than is afforded by the supply here. These ditches are to be put circular setting forth the expected quan-

The senor waited to hear no more. about it. You may say that, because you succeeded in driving me from my home and most insolently took possession of it, I have no voice in the matter. But I forbid this work going on."

(To be continued).

Folly is simply pleasure which hurts

GET THE MOST OUT OF YOUR TEL-EPHONE.

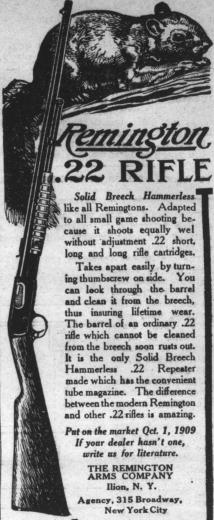
In Michigan there are 161,037 farms owned by the farmers who work them and there are approximately 50,000 rural Before anyone was up at the little adobe telephones in Michigan connected on the house the next morning, John laid his long distance lines. When one farmer sheaf of popples on the front door-step. out of every three has a telephone it is pretty conclusive proof that the farmer does not have to be educated as to the value of telephone service. He has found out for himself that a telephone has become almost or quite indispensable to modern farming methods. The writer of an article recently published in a Detroit daily paper estimated that the telephone, simply by keeping the farmer in touch with the markets, had increased the farmer's profits five per cent per annum. The time was when the farmer prepared his load for market by guess work and if he proved to be a poor guesser as to just what condition the market was in he was obliged to bring his load back unsold or accept whatever the local produce merchant was willing to offer. And the merchant did not necessarily impose upon the farmer but bot on the chance of keeping it until the demand for the produce should appear. Some times he lost more on the speculation than did the farmer and sometimes he made a profit great enough to warrant a much higher price to the farmer. The rural telephone has changed all this for it enables the farmer to hold his own produce until the demand becomes active; in this way the farmer can, in a measure, even control the price of his produce. The time to get your price is when the customer must buy.

But the possibilities of using the telephone even to greater advantage is not as apparent to some farmers as it should Every year the farmer is developing as a business man, the younger generation has profited from the experience of the older and even the opportunity for study and thot is much greater now than it was before the labor-saving devices relieved the farmer of heavy and timeconsuming work. The farmer has changed from a "toiler in the field" or a day laborer to a business man. He manages his farm much as a factory superinten-Guy started for Capistrano, to carry dent manages his plant. The agricultural the cream to the station. John and Pedro colleges, with the aid of the agricultural were cultivating the long rows of sweet department at Washington and the agricultural books and publications, are reducing agriculture to a science. Today the farmer does not have to guess to get results, he gets them by following the laws of science and by studying the markets.

The reason that the farmer, as a rule ne saw one of the ditchers signaling him. does not use his telephone to the best advantage is because he has neglected the "sales department." The most im-John tied his horse to a gnarled live portant adjunct to a successful factory oak that grew on one side of the field, or commercial house is its "sales department." It is harder to sell goods to the best advantage than it is to produce should not imagine why the old man them. Many of the 50,000 farmers conshould want to see him.

nected on the lines of the long distance company fail to appreciate the marvelous scope of the service. There is not a city or town of any importance in this counmode of irrigation, or anything else that try or a business house in them that is not available on the long distance lines.

For instance, a farmer a few miles mer and left his name and address with nest conversation with the foreman, who a number of commission merchants and particularly impressed on them the fact that he had a long distance telephone. In September he received a long distance telephone call late one afternoon. It was "Good morning, Senor Ortega," John a Detroit commission house that had to said politely. "I am glad to see you. The get in a certain number of bushels of peaches to make out a car load for shipnot come up in the shade to talk with ment the second day thereafter. They simply had to have the peaches and they were willing to offer a fifty per cent advance on the price for what they needed if they could be secured Monday in time for the shipment. After having received the order over the telephone the farmer, by using the same telephone, got his help "Outrage? Why, Senor Ortega, I do together and succeeded in getting his entire crop into Detroit on the tity and quality of their crops and emphasizing the fact that they had long dishave heard that story, and I care nothing tance telephone service and rural free The very progressiveness of delivery. the initiative would appeal to any good business man and if he could buy from the farmer direct he would save the middleman's profit and also be able to pay the farmer a higher price than would this same middleman. If twenty farmers in one community would get together in





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#### this way and keep together by telephone with each other and with the commission men the local buyer and his profits might be eliminated.

The switching arrangement which the long distance company is now offering the co-operative rural lines and the connecting up of local telephone companies has so extended the scope of the farmer's telephone that today a Michigan farmer could, if he desired, call up and talk direct to over four million telephones located in the states east of the Rocky Mountains. Wayne Co.

# OUR YOUNG MEN'S COLUMN.

In previous issues we have given our young men some advice regarding the selection of clothes, and now we believe we should go a little further and say a few words in regard to the keeping of

How often do we see certain young men whose clothing expenditure we know must be quite limited, and yet who always look well dressed. By playing Sherlock Holmes and doing a little detective work you will quickly discover the reason for it. You will notice first that such men keep their clothes well brushed and sponged, thus preserving the original rich color of the fabric, for even the best of materials will lose their brightness in a very short time unless the dust is kept brushed out of

We don't wish to set forth a series of "don'ts" for those who are inclined to be a little thotless on the clothing question, but we want to say that if, when puting your clothes away until the next occasion calls for them-even tho it be the next morning, you should invariably use hangers, both for the coat and the trousers. You wont realize what a great difference it will make in the appearance of your apparel until you have tried it, for nothing will so quickly put garments out of shape as to hang them carelessly on a single peg, even tho you use the hangers inside the collar of the coat for that purpose. The hair cloth and canvas linings that give the "shape" to the coat will eventually lose their stiffness and the lapels and entire front of the coat will be inclined to sag. You can prevent it by

Another advisable plan is to keep two suits on hand and to wear them alternately, then, if your clothes should become damp thru the day, either from perspiration or moisture in the air, the second suit will not only be far more comfortable for the next day's wear, but you will avoid putting the other suit in a deplorable condition that usually follows the wearing of damp clothes. By following this plan you will find that the trousers will not bag at the knees and the coat will not become wrinkled and pulled out of shape.

Neckwear is another tough proposition for the average young man, and here we must say, don't ever buy one of those manufactured ties-the kind that are already tied and never can be untied-the kind that look to collar buttons for support, for they are now a thing of the dark ages.

Almost any good furnishings store can give you four-in-hands or "bat-wings" in a good silk or other materials as low as 25 cents. Then when they become wrinkled or soiled a little sponging and ironing will make them look as good as new.

These little pointers may seem trivial to you but if you will pay a little attention to them you will soon establish a reputation for being a well dressed man. and what, after all, is more important in these days of progress than being well dressed? It is the thing above all others that will assist you in your progress, be it business or social. Many a man has "lost out" at some critical time in his life, and many of them if they had the power to analyze the deal would be surprised to know how great a factor was sonal appearance at the time.

Make it a habit-this careful dressing, and you will find that you not only improve your personal appearance but you will find a like improvement in character, for the effect of orderliness on the mind is to encourage orderliness in thots and action,

After all, it is the young man who pays attention to the small details that is able to successfully handle the greater probems with which he comes in contact in later years.

Character is higher than intellect. \* \* A great soul will be strong to live, as well as strong to think .- Ralph Waldo Emerson.

# Don't Buy "Standard" Twine In 1910!—Read Why

You can't afford to buy it, because it will cost more, length for length, than the longer, better grades.

Most "Standard" twine is made from Sisal fibre, the longer grades largely from Manila hemp. Have you heard about the speculation in Sisal which has made it higher priced than Manila, the much better fibre?

An attempt is being made to corner and monopolize fibre. That would surely mean much higher prices for binder twine. We want to prevent it. Do you want to help-and at the same time get better, cheaper twine? It means millions of dollars to American twine users.

The only way to do it is to refuse, this season, to buy a pound of twine made from Sisal. We have studied the matter and we know.

We are making it easy for you by selling our longer grades of twine cheaper, length for length, than "Standard" or Sisal.

You can save money next year and the years following if you act now. Don't wait! Your twine dealer is



placing his order now for next year's stock. Go tell him that he must be prepared to furnish you twine running 550 feet or more to the pound. (All twine on the market running less than that is usually made of Sisal.)

We are telling you honestly, from our expert knowledge, just what will be best for the twine-using public. This advice is just as true whether you use our twine or some other.

Either of the following two twines is a big bargain!

# Plymouth "Extra" Plymouth "Superior"

Plymouth "Extra" twine runs 550 feet to the pound, Plymouth "Superior" 600 feet. Both are noted for their evenness and generally satisfactory qualities. Ten balls of "Extra" will do as much work as eleven balls of 'Standard" and will cost less.

These are the tags you will find on the balls. Remember there is no genuine Plymouth twine without the sheaf trade-mark on the tag.

We will furnish "Standard" 500 feet twine if you want it. You will lose money, however, by buying itthis is true of any "Standard" twine, whether Plymouth or other makes. There never was a time when the buying of the right kind of twine was of such importance to the farmer. If you are interested, as we are, in preventing monopolistic methods and exorbitant prices-if you want to see the twine business conducted in a fair, independent manner you will follow

If you want all these matters explained more fully, write your name and address plainly on a postal card, say "Send Twine Booklets" and mail it to

PLYMOUTH CORDAGE CO., Established 1824. North Plymouth, Mass.



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JUST drop us a post card and we will send you, free, the latest edition of our Corn Book, containing the best information from the highest authority on selection and care of seed corn. You can get more and better corn without increased cost by following this book.

Every page illustrated and printed in colors. The fact that this book also contains description of

The Deere No. 9 Corn Planter

the most highly perfected machine on the market, adds to its value.

Increased accuracy secured by the famous Decre
dge-selection drop, means anywhere from ten to fifteen bushels per acre over the old style of machine.
Repeated tests have shown the above increase in favor of really accurate planting. We have plates for all kinds of corn and other seeds. Instantly changed from hill to drill drop without changing plates.

Fertilizer attachment that distributes either in hill or drill. Illustration here shows the regular runner, but stub runner or disc openers may be had on special order. In fact, the Deere No. 9 is strictly up to date in all real improvements.

Deere & Mansur Co. Moline, Illinois.

Deere No. 9 Edge-Drop Planter

**Highest Accuracy in Drop** 



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They are ALL LEATHER—no substitute. That is the reason they are the strongest and wear the longest. Years were spent in perfecting them. They are the masterpiece of the shoe-making art. You might pay more for shoes than you would for WELLS but no matter how much you pay, you could get no better shoes.

If shod in WELLS' SHOES, you are "well shod."

FREE We have laid aside a very interesting booklet for every reader of this paper, entitled "Mother, Father and the Children." Yours is waiting for you. Send for it today.

The next time you buy shoes and want a pair that look better, feel better and wear longer, insist on WELLS. You will find the name of M. D. Wells Company on the sole of all genuine. If your dealer cannot supply you, you will be rewarded by writing to

M. D. WELLS COMPANY CHICAGO

What J. J. Hill, the Great Railroad Magnate,



Says About its Wheat-Producing Power

The greatest need of this country (United
States) in another generation or two
will be the providing of homes for
its people and producing sufficient
property of the providing of homes for
its people and producing sufficient
are gone. Canada is to be the great
wheat country." J. J. HILL.
This great railroad magnate is
taking advantage of the situation
by extensive railway building
to the wheat fields of Western
Canada. Upwards of

125 Million Bushels of Wheat were harvested in 1909, and the average of the three provinces of Alberta, Saskatchewan and Manitoba will be upwards of 28 bu. Free homesteads of 160 acres, and adjoining pre-emption of 160 acres (at \$3 per acre), are to be had in the choicest districts. Schools convenient, climate excellent, soil the very best, railways close at hand, building lumber cheap, fuel easy to get and reasonable in price, water easily procured, mixed farming a success. Write as to be the process of the success of the convenient of the convenient of the convenient of the convenient of the canadian Government Agent.

M. V. McInnes, 176 Jefferson Ave., Detroit, Mich.; C. A. Laurier, Marquette, Mich.

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are to be worn a great deal and they can

be purchased from 50 cents up as high

wear with the Dutch neck effect, or to

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There is not the great variety of belts

displayed this year, as in previous years,

owing to the universal use of one-piece

dresses, which does away with the belt.

What are shown are in the leather, the

same kind of material as the belt, buck-

Gloves are now shown in most of the

new colors to match the new dress shades

from Paris. The fad for large hand-bags

still holds sway and some are big enough

to carry all of miladi's small shopping,

While the custom is exceedingly dan-gerous, low shoes will probably be worn

all winter, by a large number of women,

especially in the house, and very pretty

new hose in all the colors to match the

gowns, is the thing. Shoes with colored tops are losing favor. Tans and dark

reds, in a heavy walking shoe, are very

popular. These shoes are built with wide,

heavy soles and high tops and are most

sensible for cold weather.

not mentioning dozens of other things.

les are not much in evidence.

# OF INTEREST & TO WOMEN

# Does a Feeling of "Unrest" Rule Women?

is the most striking characteristics of physical unrest in the tapping fingers, the scraping feet, the moving back and forth in the seats, the turning of the head from

dozens of other ways.

The faces, too, mirror the same spirit. Tense, eager, even anxious, the eyes unnaturally bright and searching turning this way and that as tho ever seeking something they would possess, every countenance depicts the mental and spiritual unrest of our generation. Especially of women is this true. Slowly, insiduously, but nevertheless surely, the dissatisfaction which began with a few has spread until the larger part of our women are tinctured with this demon of unrest, until, instead of the contented, peaceful women of our grandmother's times, we have discontented, dissastified creatures, wanting something, they know not what. But all the same, strongly insistent that they do not want things as they are. What is the reason and what the cure? Every group of thinkers has its own answers to the question.

wealth. "It is because women no longer not or spin, tho nature has filled them with energy and blessed them with ambi-"In the olden days, the good old days of simplicity, when women spun and wove and knit and sewed and baked and brewed, in short, when they did all their work with the help of their daughters, there was not this discontent and rest-lessness. The advent of machinery to lighten woman's labors, the springing up of bakeries and creameries, and laundries and all these other labor-saving schemes, has robbed woman of her natural work and left her a victim of her own active mind and idle hands. Women are nervous and unstrung because they have nothing to do and nothing to live for but excite-But the women who work, there are still women who are comfortably busy most of the time. This argument does not appeal to them, for the busy woman has felt, too, those restless stirrings. She insists that women are dissatisfied because they are overworked.

"Women are dissatisfied because there are too many demands upon them," says your busy woman. "Now, in the old days it was not so. To be sure, our grandmothers had not our labor-saving devices, but then, there was little expected of

If you were asked what, to your mind, them. They were not supposed to be the equals of their husbands mentally, nor to our people of today, what would you know anything about business. They answer? Would you say "Unrest?" At- never thot of keeping up with their sons tend any gathering, a concert or other in school, or even of keeping posted in entertainment, an evening party, even a the doings of the day. They never heard church service, and is not the prevailing of clubs and they were not required to spirit one of unrest? You notice the dress so well. If a woman was a good dress so well. If a woman was a good housekeeper, that was all that was expected of her. But I am expected to be perfect housekeeper, a fashion-plate, side to side, clearing of throats, and in an encyclopedia of useful knowledge to dole out to my children, a trained nurse with a working knowledge of medicine, so that in an emergency I can take care of any sort of sickness. I must be able to converse intelligently with my husband on any topic and to find time besides for church, charity and calling. If we could return to the old days of sim-

The suffragette has her cause and cure for the disease which has taken hold of the body politic. She knows that women are discontented because for so many years they have been oppressed and downtrodden by man. Give woman the ballot, and her dissatisfaction with life would disappear at once, says the equal rights advocate. Others have other reasons for the condition of things. Drunkenness, poverty, ignorance, higher education, the advent of woman into the business world, all are blamed as being the root of the The idle, rich woman will tell you it is evil. But it has remained for a man to advance the only absolutely original and need to work," say these women who toil novel argument. A writer in a current magazine declares it to be his firm conviction that women are dissatisfied because their husbands will not allow them to have men friends.

So the philosophers go on theorizing. But to my mind each one has named but sign of the unrest, and not a cause. Looked into closely, is not every theory advanced so far but a sign that unrest exists, and not a cause for such a general condition of things as we find? I believe that the unrest is here because the world is ripe for a great change, spiritually, industrially, politically, mentally and physically. The old order of things was good in its day, but its working efficiency is over. The new century, the next generation even, needs something better than our fathers and mothers enjoyed, something ahead of what we are enduring.

A great change is coming, new thot, new religious motives, new governments are to be born, and we of today are in the throes of that birth of new and better

The old must go, and the first sign which marks its demise is the spirit of unrest and discontent with which the women, and the men, of today are filled. DOROTHY HUDSPITH.

plicity I am sure unrest would disappear."

HOME-MADE HOLIDAY CANDIES.

For years back we have been making all of our holiday candies. Not only do we find them much cheaper than the bot candies, but we have the assurance of knowing just what they contain, and that they are at least pure. A box of homemade candies always makes an acceptable gift to a friend, as well as to members of the family these candies are not nearly as much trouble to make as one might think. Fondant, which is the basis of nearly all the finer candies, can be made a week or two before you are ready to make the candy. If there are grown-up daughters in the home they will delight in this part of the Christmas preparations.

Pretty boxes can be made for these candies by using biscuit boxes, and covering them neatly with pretty wall paper with the back of the hand work into a or with the covers of magazines. holiday covers usually are decorated with one inch thick, on buttered paper; mark in the shape of men or animals. Cookies appropriate for this purpose. Crepe or Wrap up in squares of waxed paper. frosted in white, with the child's name water color paper can also be used. Line Chocolate caramels are made much after put on in pink, will cause their eyes to the boxes with parafine paper, and if the the same manner only chocolate is added, dance with joy. It takes so very little candies are soft, such as chocolate creams using about four ounces to a pound of to please the children that we should be then place a layer of stiff cardboard or sugar. willing to take a little time to prepare bristol board between each layer of canthese things. If the purse is slender it is dies. If coloring is used in making can-almonds and place in the oven until they surprising how many pretty, useful and dies be sure to get fruit or vegetable are well browned; then dip into melted, colors. Anyone can get these at the sweet chocolate, and place on greased padruggists. One should have different per until the chocolate hardens. Many painted and hung from the boughs by a control and black thread are pretty; long strings of also many pretty gifts can be made of kinds of flavoring extracts on hand when people are fond of peanut candy; prepare materials costing little, or those in the making candies, thus variety is insured. the quart of peanuts before making the house. These should be done up in some Fondant is not at all difficult to make if candy; that is, shell, skin and chop finely. Bright, red apples fastened on the tree manner that will arouse the children's one follows directions and watches the Take two cups of molasses, four cups of with colored cord add another dashing curiosity, and give them a little surprise syrup closely while on the fire. To pre- light brown cugar, one-fourth cup vine-

on the branches, the larger ones heaped two pounds of either loaf or granulated sugar, one pint of water, and one-half The tree may be fastened into a tub, teaspoon of cream-of-tartar. with stones piled around the stem to keep begins to boil carefully remove all scum it steady. Overlay the top of the tub and if crystals should form around the with moss or entirely cover with vines edge of the pan, wipe off with a damp or cedar branches. The candles that are cloth, being careful not to touch the boilto be used for illuminating should be ing syrup. When large bubbles begin to placed at the very tips of the boughs, so rise watch carefully and test frequently by dropping a little into ice-cold water; that there will be no danger of setting fire to the upper branches. If one can if done it should form between the fingers afford them tiny Japanese lanterns are into a soft ball, one that hardly holds tomuch better for lighting the Christmas gether. Have ready a large platter, tree, since there will not be near so much slightly oiled and pour the sugar syrup over it. As soon as the sugar can betouched with the back of the hand with-WHAT THE SHOPS ARE SHOWING, out burning work it with a small wooden spoon or spatula, from the sides of the dish to the middle, till it becomes firmand white, then gather the sugar in the The pretty and dressy French Jabot is hands and work until a creamy paste. If, still the leading thing in neck decorations instead of becoming creamy, it grains, and they are worn with collars and stocks put it back in the pan with one or two of all kinds. Those of lace and embroid- tablespoons of water and boil over again. tablespoons of water and boil over again. ery are most shown, but dainty ones are Make chocolate fondant in the same manmade from fine handkerchiefs and these ner as the above, only add to each pound kind launder much better than the ones of sugar four ounces of unsweetened chocolate. Pack the fondant down in High collars are still the rage but the bowls or crocks, and cover with greased

cool place until ready to be used. Of all the candies made out of fondant perhaps the chocolate cream drops are the most liked, and yet are the most tedious to make. To prepare them take as one wishes to pay. They are made to some of the white fondant, flavor with vanilla or any flavoring desired, and form into cone shape with the fingers. Let the cones stand awhile until they harden on the outside. Grate some plain chocolate and place in a double boiler; let remain over the fire until the chocolate is melted; drop the cones into this melted chocolate one by one, or two or three can braids, and fancy material. Most of them be put in at once if liked. Roll around fasten with the snap, covered with the so that all sides may be covered. Lift out carefully with a two-tined fork on a piece of wire twisted into a loop. Hold until all extra chocolate has drained off, then place on waxed or greased paper

and the little strap for fastening is new and let stand until cold.

ones raising higher behind the ears than or parafine paper; then set away in a

Fondant is nice used in connection with fruits and nuts. To make nut or fruit bars or cubes, chop the nuts or fruit very fine and knead into the fondant. Press this into a long bar with the hands, and lay on a buttered plate. To make it perfeetly smooth dip a knife into water and pass it over the top of the bar, also over the sides. Let stand three or four hours, and cut into cubes with a thin, sharp knife. Chopped dates and nuts can be combined in these bars, or chopped figs alone used, or a combination of fruits can be used. Almonds are nice dipped in the cream. Blanch the almonds by putting them into a saucepan with boiling water, letting them cook three minutes; remove, drain off the water and free the meats from the skin. Lay them in a shallow pan and let dry in the oven. Flavor the fondant to suit the taste, dip into the melted fondant or else form it with the fingers around the meats; roll while still moist in granulated sugar. Walnuts can be creamed in the same manner; as fast as they are formed place halves of the English walnuts on both sides of the ball and press them firmly together.

Creamed dates are always nice. Mix some of the fondant with chopped nuts, remove the pits from large dates, and stuff with this mixture, then dip the dates into melted fondant.

There are a great many delicious candies that can be made without the use of fondant. To make vanilla caramels put into a saucepan two cups of brown sugar and a cup of cream, and flavor quite strongly with vanilla, but this should not be added until just before removing from fire. Bring to a boil then add one teaspoon of cream of tartar. Cook to a soft ball, stirring all the time; pour out upon a platter that has been dipped in cold water. When cool enough to touch The smooth cream, roll out into sheets about squares and set aside until cool.

Chocolate almonds are fine. Blanch the color note; Bethlehem stars and cres- also. The smaller present may be hung pare it place in a sauce pan or kettle gar, and four large tablespoons of butter.

### CHRISTMAS MADRIGAL.

Christmas is here; Winds whistle shrill, Icy and chill: Little care we. Little care we. Little we fear Weather without, Sheltered about The Mahogany Tree.

Here let us sport, Here let us sport,
Boys, as we sit;
Laughter and wit
Flashing so free.
Life is but short—
When we are gone,
Let them sing on,
Round the old tree.
—William Makepeace Thackeray.

### CHRISTMAS TREE SUGGESTIONS.

BY PANSY VIOLA VINER,

Those living in the country places need have no excuse for not having a Christmas tree, no matter how slender their purses; for here bush or bough may be had for the cutting, and very effective and satisfying decorations can be made without any outlay of money.

The gay streamers that are to lighten the somberness of the evergreen are as pretty in effect made out of pink, blue, scarlet, yellow and white paper muslin, as if of the most costly ribbon. English walnuts and scallops shells gilded or painted and hung from the boughs by cranberries, of popped corn, or of peanuts may be looped from limb to limb.

cent moons cut out of cardboard and covered with gold or silver paper shine out amongst the dark green of the tree, and are very simple to make; small, fancifully shaped bags may be filled with nuts, candies, raisins and dates and suspended from the tree. Every home scrap bag boasts of some bright pieces of silk and satin, odds and ends of ribbon from which these little bags can be made. If not, netting can be used and overcast on the edges with brilliant worsted. Almost every child knows how to make paper chains and these look pretty on the A pretty red and white effect is obtained by stringing the bright red cranberries and the white popcorn alternately. It is wonderful how these simple and inexpensive things will decorate a tree.

Doughnuts tied with bright ribbon and suspended from the tree are nice; and delight in the cakes cut economical little gifts can be purchased at ten cents and sometimes at even less,

FOR SALE \$9,000 farm for \$86000. South Central Michigan. Must sell. Address W. A. WHITEHEAD, Ionia, Michigan

160 ACRES—Oakland County—Excellent soil; 35 acres timber; balance cultivated; 2 good house; 2 barns, 1 new; all outhouses; new site; good water; near siectire line and good market. C. N. KING, Ortonville, Mich.

FOR SALE-155 Acres of first-class Good buildings and fences. On account of other business I offer this farm at a bargain. No agents, deal with owner. J. C. SAYLES, Stockbridge, Mich.

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J. H. BELLOWS, 1635 The Nicholas, Toledo, Ohio.

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Improvements \$15.000. No waste land, all corn land but 70 acres. 400 acres grew 32,000 bushels of corn in one year. Big corn crop on it now. Adjoins Mo. Pacific Raliroad station. Buyers investigate. Price \$75 an acre; easy terms. J. H. LIPSCOMB, 807 Fidelity Trust Bldg., Kansas City. Mo.

### Fertile Farms in Tennessee \$5 to \$10 per acre-

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II. Are now selling at from \$10.00 to \$25.00 per acre. Located in this rich farming and trucking country, in Southside Virginia, along the new Virginian Railway. Excellent climate two and three crops a year.

C. Write for catalogue and full inform B. E. RICE, Agent, Industrial Dept., Virginian Railway Company. Norfolk, Va.

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soon as it boils stir, and keep stirring until it is done. To test, drop some in ice-cold water; if it becomes brittle it is done, then add the peanuts. Cook for about two minutes after adding; just before pouring out add a teaspoon of vanilla. Pour into buttered sheets so that it will be in thin sheets. When it has become hard cut or break into squares. A good hickory nut candy is made by boiling two cups of sugar and one-half cup of water together until it will thread. When done flavor with a teaspoon of vanilla and lemon together, turn quickly into the beaten white of an egg, stir in one cup of hickory nut meats, turn out into a flat buttered dish, and when cold cut

into squares.

A delicious fruit and nut confection is made by chopping together one cup each of figs, raisins, citron and candied orange peel, dates can also be added if liked. Add to this a cup of chopped peanuts and a half cup of chopped almonds. Moisten in a saucepan two pounds of sugar with a little vinegar and add a large tablespoon of butter. Cook until it forms a firm ball when dropped into cold water; it should not get brittle. Beat up until creamy, add the nuts and fruits and mix well into the cream, using the hands for this purpose. Roll out into a thin sheet on a board, well-dredged with confectioners' sugar. Cut with a small cutter into cir cles or cut into squares. A pretty striped candy that the children will like is made by boiling together a pound of sugar and half a cup of sweet cream; add one tablespoon of buter, and a pinch of soda. Cook until it makes a firm ball when dropped into ice-cold water. Pour half of the syrup into one dish and half in another. Color one-half with red fruit coloring, and flavor with peppermint. Pour the white syrup over this, and as soon as it is possible to handle it pull into sticks, then cut into strips the desired length and you will have a red and white, or pink and white, striped candy.-M. M. Wright.

# KINKS.

Kink I.-Transposition.

Select a word of four letters whose letters can be transposed to spell four other

Kink II.-Triangles.

How would you make four triangles with only six toothpicks?

Kink III .- Addition Sums. 1. Add together a kind of fish and a prong (letters transposed) and get a kind of basket.

2. Add together another kind of fish and stick and get a Swiss mountaineer's

3. Add together a digger's tool, a Biblical land and a letter, and get a common

fish.

Prizes for Straightening Kinks.—To the sender of each of the ten neatest correct answers to the above Kinks, we will give choice of a package of 50 post-cards representing a trip around the world, a copy of "Concrete Construction on the Farm," or a fountain pen. Where contestant or some member of his family is not a regular subscriber a year's subscription (75c) must accompany answers. Answers must not reach us later than Jan. 8, as correct solutions will be published in issue of Jan. 15. Address answers to Puzzle Dept., Michigan Farmer. Farmer.

Answers to November 20 Kinks.

Answers to November 20 Kinks.

Kink I—Alphabetical Advice.—1. Be too wise to be under obligations to anyone.

2. Use your eyes to seize opportunity before it flies. 3. Owe naught. 4. Busy be like the bees. 5. Excel by doing good.

6. Use few excuses. 7. An empty pate means an empty plate. 8. Envy not the greatest (S) nor scorn the smallest (s).

9. Be not overwise in your own eyes.

10. Easy be in temper. 11. Do not undervalue your smallest fault. 12. Date all your letters.

Kink II—Conundrums.—1. A list of

your letters.

Kink II—Conundrums.—1. A list of musical composers is like a saucepan because it is incomplete without a Handel (handle). 2. E. Z. 3. A. Z. 4<sub>g</sub>C D. 5. C. Or I. 6. DIT. 7. Fig. 8. Because it is always half peas (p's).

Prize winners—Lucius V. Judson, E. L. Russel and Minnie Libey.

### WAS PLEASED WITH PRIZE.

so pleased with the shears sent her as a bride. Shake hands with her and speak prize for solving the kinks in our puzzle a few words of greeting, as. "I wish you department, that she sent us the follow- much happiness," or something similar. ing witty reply, in verse:

"Quite surprised was I,
When the postman came by,
To receive such a keen-edged gift.
But I do not feel
That I'm sharp like that steet,
Just a farmer's wife of thrift.

If the 'Kinks' were the cause,
I surely must pause
With wonder at your promptness and
favor.
My thanks I send you: Which is truly your due

For the shears, which I won for my
labor."

See pages 542-543 for new free premium offers.

δοσφοσφοσφοσφοσφοσφοφοφό δ.

Home Queries Exchange
Column Conducted By
Elisabeth.

Every day there are questions arising in the home that perplexes the wife, mother and daughter, and they wish for some one to advise them. We receive many such queries and for the benefit of our readers we are going to conduct this Exchange Column. Write us what puzzles you and we will do our best to help you. We are going to publish the questions and ask our readers to answer them. No doubt there will be several of you who know just what to do in each case and can give the desired information. In return we will print your questions. Any little points of etiquette, dress or general information, we will answer as soon as possible. Address all communications to Editor Home Queries Exchange Dept., The Michigan Farmer, Detroit, Michigan.

J. E. M .: - If you will feed your hens lard cracknels they will stop eating eggs. -E. M. B., Kila, Mont,

Kittie M .: To remove scorch stains rub the cloth with soap, first wetting, then place in the sun. Repeat until spots disappear,-E. R.

If it is woolen goods that is scorched rub with a dampened cloth. This will take off the burnt nap and lessen the bad appearance of it. Of course, nothing will remove a scorch which has burned clear thru the goods,-B. L.

Miss Cora:-If pie is turned out onto a warm plate, and cooled slowly it will not "sweat."-Russel.

Housewife:-For English plum pudding use one and one-half pounds of bread crumbs, two ounces citron, one-half pound of flour, two ounces almonds, blanched and chopped, two pounds suet, chopped fine, two small nutmegs, grated, two pounds curants, two pounds raisins, one order given, put in white cloth, allowing room to swell, and boil for 31/2 hours. Stick a sprig of holly in the top, and bring to the table hot. Serve with English sauce. Made as follows: One heaping teaspoon of corn starch. Rub smooth in a little cold water. Do this in a teacup; pour on slowly, stirring all the while, boiling water, as if making starch, until the cup is full. Add a pinch of salt and set it on the back of the stove to keep hot. Then take same sized cup of sugar and one egg. Beat together until very light, in a quart bowl. Then pour in slowly the hot starch, stirring well. Flavor to suit taste. The pudding will keep for weeks, warm up when you want to use, by boiling for about one hour. You can make it in several small puddings, if desired, and use them when desired .- J.

Dear Editor:—Is the fourth wedding anniversary leather, and what would be nice to carry out the idea in entertaining for that event?—Mrs. J. L., Hudson.

Yes, it is leather; many plans can be carried out for entertaining. Send out your invitations, printed or burned on a piece of leather, or the post card of leather may be utilized. A skin of some pretty color would make a nice centerpiece for the table. A kid shoe may be filled with flowers. Doll slippers filled with candies make excellent souvenirs. If cards or ther games are played, have leather score cards which, can be punched. Many small articles of leather can be given for prizes.

Dear Elisabeth:—I am to attend a wedding reception in the city. It is my first one and I am anxious to know just what to do. I have never met the bride, but the groom is an old friend of mine. Should I congratulate the bride first or the groom, and should I kiss the bride and groom? Should I shake hands with all in the receiving line?—Country Girl.

The bride's mother will stand first in Mrs. Joseph King, of Homer, Mich., was the line and will introduce you to the The bride is never congratulated. Shake hands with the groom and congratulate him. A slight hand-shake and a bow of the head is all that is necessary for the rest of the receiving line. You are not supposed to kiss the bride unless you are a personal friend of hers; nor the groom, unless you are a relative.

Dear Editor:—I would like to have some one tell me what to do for chilblains and cramped pains in toes, so often felt in winter.—Ed. S., Fowlerville.

Dear Editor:—I wish some reader would give me a good formula for making soft soap.—Mrs. R. T., Grayling.



# Your Purse

in Arkansas and East Texas as hundreds of others are doing. Farmers, who, like you, have found it hard work to get ahead on the worn out soils of older sections, have transferred their efforts to the rich, virgin lands down there and are quickly becoming prosperous. Their land yields bigger crops than they ever got up north, and it cost them much less per acre. \$5 to \$25 at this time, will buy rich, virgin land there, that will produce from 40 to 50 bushels of corn per acre, 20 to 30 bushels of wheat and big yields of fruit and truck. Do you fully realize how great an opportunity there is

in Arkansas and East Texas

and how soon it will be gone? How much better off you would be, if you were farming on these fertile lands where there is every natural advantage to help you—plenty of rain, a long growing season and a mild climate with so little Winter that you can work outdoors every month. Your stock lemon, juice and grated rind, two pounds sugar, one teaspoon salt, six eggs, and enough milk to make stiff paste. Mix in barns to shelter it. There are good near-by markets and schools and churches are in every district.



You will never know how big the opportunities really are until you investigate. Send for free copies of our books about Arkansas and Eastern Texas. Post yourself on conditions. Take advantage of the low fares offered twice each month by the Cotton Belt Route. Make

a trip down there to look a-round. It will be a start on the road to prosperity. Write today—tomorrow you may forget. E. W. LaBeaume, G. P. & T. A., St. L. S. W. Ry. 1411 Pierce Bldg, St. Louis

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appear again.

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#### TO REFOOT A STOCKING SUCCESS- valued them because they were the gifts FULLY.

majority of them have a seam across the little toe which is bad, owing to the pressure of the shoe at that point. The pattern shown below has only a very short seam starting from under the toes in the center of the foot and coming up over the top of the toes in between them, where it is not felt. Then another short seam up the back of the heel. The seam which fastens the new foot to the upper part, comes on top of the foot and out of the way of the shoe pressure. It is best to just bring the edges of the seams together and sew them with the in and out stitch and thus avoid a heavy seam.

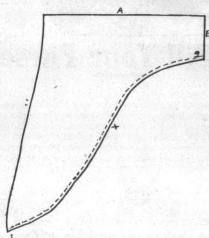


Illustration No. 1 shows the upper part of the stocking cut to sew the foot on. Line A is the ankle, or leg part. Line B beginning to end with a spirit of good is the back of the heel and line C upper cheer.—E. E. R. part of foot. Place the foot to stocking and sew together along dotted lines marked X, on both patterns, having figures 1 on each pattern, which are the toe ends, come together, and figures 2 on each pattern, which are the heel ends, do not like the gift, be polite, this does

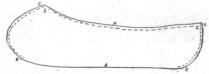


Illustration No. 2 is the foot pattern. Fold the cloth double having the pattern situated to bring the fold along line A, sew up the seams along dotted lines from B to C, which gives you a perfect bottom of a foot.

This is simple and easy to make and and put the new one on in the same

# CHRISTMAS GIFTS THAT PLEASE.

That some gifts carry a greater degree of pleasure with them than others, is For simply owing to the fact that certain ones fit into the requirements of the recipient, while with this lacking, the sense of gratification connected with the gift can never be as keen. We enjoy exactly in proportion as the article presented meets I our wants. When by some happy that He on the part of the giver we become possessed of something which we have long desired, the pleasure is intensified many fold over that experienced at receiving an article for which we have no earthly use, An' yet over which we must make at least a semblance of enthusiasm, so as not to appear rude toward the giver.

To give Christmas presents intelligently is an art; mere dollars and cents will not be sufficient. But the heart of the giver must go with the gift and the selection

be made with care to fit the individual.
What to give becomes each year more and more of a problem. Particularly is this true with giving to those who "have everything." True, these persons very likely have wants but to hit upon the selection

My Brother George he vows that meat As food for man was not intended; He sticks to vegetarianism

As food for man was not intended; He sticks to vegetarianism

As if his life on it depended.

An' Cousin Belle who's always had A rather sickly constitution

Says that four light meals a day She's found at last the health solution. right idea and be able to carry it out, is not by any means an easy task. In such a case the person who selects some practical article stands a better show of success than the one who gives fancy ones. A dainty handkerchief rarely fails to be welcome, while an article of a purely ornamental character, such as a vase or —Alice Jean Cleator. right idea and be able to carry it out, is ornamental character, such as a vase or a picture might fall far short of its obburst of after Christmas confidence that she had laid away up-stairs dozens of presents relies of holidays past and grant for the turkey looks around and sights:

"What is the use of living. When Christmas makes a grab for what is not devoured Thanksgiving?" presents, relics of holidays past and gone for which she had no earthly use. She

THE MICHIGAN FARMER.

of friends yet it was impossible to make use of all of them. Her room was over-There seems to be a great demand for flowing with every conceivable article rea good way to refoot stockings. There quired for it and the surplus had been are several patterns for doing so, but the disposed of as above. Year by year the collection increased in size. That set me to thinking and I determined in future to study well the individual and the gift. For this reason I confess to a leaning toward practical gifts. Handkerchiefs, hosiery, bottles of perfume, selected with due consideration for the personal tastes of the recipient, and of unimpeachable brand, books selected with the same degree of care, all are standard and staple gifts. To this may be added choice confectionery, cut flowers or growing plants and magazine subscriptions. Stationery many persons prefer to select for them-selves, as they use one kind only.

Giving becomes instantly simplified when we turn to the children. There we meet little difficulty since little ones are rarely critics and are easily pleased. For them books are among the most desirable of gifts, but in selecting, care should be observed not to buy too many of a childish nature, which will soon be outgrown. The rule, of course, does not apply to quite young children, who would take no notice whatever of a book which contained no pictures, however good it might be. Christmas has become for many a rather strenuous period. Yet not one or us would forego the delightful occasion with its gifts, its feasting and its merry making. It would, indeed, be a step backward to abandon the observation of the day which marks the birth of the Christ altho the tendency is certainly to make of it a holiday and not a holy-day. Of all the days of the year this one should be made one of pleasure for the little folks and no pains spared to fill it from

# CHRISTMAS DONT'S FOR RECEIVING.

BY EMILY L. RUSSEL.

Don't receive ungraciously, even if you not necessitate gushing.

Don't boast of the number of your gifts, or parade them before those less favored.

Dont' keep them on exhibition for a fortnight calling the attention of every chance visitor to them. Nothing could be in worse taste.

Don't make fun of anything that is given you, or tell how valuable your gifts were to others.

Dont' rush off to send a present in return for one received, as if it were sent

Pon't put off writing your vote of does not require cutting away a part of thanks too long, and don't write at too the leg of the stocking as most patterns great length, or too effusively. Don't do, as one can just trim off the old foot describe an article as "too sweet for anything,"-it might be construed as mild

### MEAL-TIME AT OUR HOUSE.

Cur meal-times are the queerest times.

Cook says, "Shure, but yese be a bother,"

For almost every one of us

Has got some funny fad or other.

Ma, she takes pre-digested food.

She thinks it's splendid breakfast diet,

An' wishes we all had the sense

To give up other foods an' try it.

My brother James thinks "Fletcherism"
Is curing him of indigestion.
He chews an' chews his food, an' says
It's a great fad beyond all question.
Aunt Fanny's taking the "grape-cure."
Her cheeks is getting red as roses.
An' Grandpa dotes on buttermilk.
Says it beats all the doctor's doses.

Sister Grace she don't eat much t home. Just nibbles things an'

At home. Just nibbles things an' munches.

She's "in society" this year,
An's out to parties, teas an' lunches.

Gramma skips dinner twice a week.
She says her life is just a bubble,
Because she's very much afraid
Her heart has some organic trouble.

### POOR BIRD.

See pages 542-543 for new premium offers.

# If you want the best rubber boot you ever wore,

ask your dealer for

# Selz "Irrigation"

It has the real Para rubber in it; made in the best possible way, with special strength at the points where rubber boots first give out. For farm work, irrigation work, any wear that a good rubber boot is needed for, it's the best and most economical made.

> Dealers sell it. Ask for Selz "Irrigation," and if your dealer hasn't it, write to us about it.



Largest makers of good shoes in the world



The most useful of kitchen helps—an invaluable aid in sausage making. It actually cuts anything that goes through it—meat, fish, vegetables, fruit, etc. Strong and simple. Made in 45 sizes for hand, steam, and electric power. No. 5, small family size, \$1.75, No. 10, large family size, \$2.50,
Also makers of "ENTERPRISE" Bone, Shell and Corn Mills, Sausage Stuffers and Lard Presses, Coffee Mills, Raisin Seeders, Fruit, Wine and Jelly Presses, Cherry Stoners, Cold Handle Sad Irons, etc.
The "ENTERPRISING HOUSEKEEPER" contains over 200 recipes. Sent anywhere for 4 cents in stamps.

over 200 recipes. Sent anywhere for 4 cents in stamps.

The Enterprise Mig. Co. of Pa., Dept. 42 Philadelphia, Pa.,

than most other houses because we save the expense of travelling buyers. Send for price list and ship to M. F. Pfaelzer & Co., 6 E. 12th St., (Desk 4) New York.

### BOTH WIRELESS AND MORSE

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Big demand for operators—great opportunities now. We are the oldest and largest telegraph school in America and occupy our own large modern building, equipped with R. R. train wire and complete Wireless Station. Teachers are practical experts. Living expenses earned. Easy Payments. Correspondence courses if desired. Catalog Froe.

DODGE'S INSTITUTE, 20th ST., VALPARISO, IND. Est. 1874.



Good Machines as low as \$12.

For \$7 extra will send the \$19 machine with automatic lift in a hand-some cabinet frame.

We prepay freight to any freight station east of the Mississippi River, or south to Tennesse. You cannot afford to buy a machine until you have sent for our handsome illustrated free catalog, printed in colors.

THE MICHIGAN FARMER, Detroit, Mich.

# THE MICHIGAN FARMER.

## To Stop a Cough In a Hurry.

With this recipe you can make a pint of cough remedy at home in five minutes. A few doses usually conquer the most obstin-Simple as it is, no ate cough. better remedy can be had at any price.

Put 21/2 oz. of Pinex (fifty cents worth), in a clean pint bottle, and fill up with Granulated Sugar Syrup, made as follows: Take a pint of Granulated Sugar, add 1/2 pint of warm water and stir for 2 pint of warm water and every minutes. Take a teaspoonful every hours. The one, two or three hours. taste is very pleasant—children take it willingly. Splendid, too, for colds, chest pains, whooping cough, bronchitis, etc.

Granulated Sugar makes the best syrup. Pinex, as you prob-ably know, is the most valuable concentrated compound of Norway White Pine Extract. None of the weaker pine preparations will take its place. If your druggist hasn't the real Pinex, he can easily get it for you.

Strained honey can be used instead of the syrup, and makes a very fine honey and pine tar cough

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"M. I. F. CO. ZINC COATED"

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Whether Cow, Steer, Bull, or Horse Hide, Calf, Dog, Deer, or any kind of hide or skin, soft, light, odorless and moth-proof for robe, rug, coat or gloves, and make them up when so ordered. But first get our illustrated catalog-with prices, shipping tags and instructions. We are the largest custom fur tanners of large wild and domestic animal skins in the world.

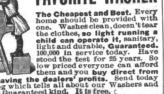
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OKLAHOMA WORLD—Greatest weekly in the West, Featuring Cheap Land—Full State News, Special Christmas offer 25c, 6 months, Address "WORLD" Department R. Tulsa, Okla.

pages of the Michigan Farmer several is- reverence to women. sues back seems to have created something more than a mild sensation among life and I do not remember of ever seeing the readers of the paper, in the writer's any of them carry food to their mouth on immediate vicinity. She doesn't go their knives or suck tea out of their "round Robin Hood's barn" to state a saucers. Nor have I heard any smacking plain fact, and her criticisms of the all too common viewpoints of many present tions. Neither has the housewife ap-day farmers and their families on ques- peared to be so very "tired and overday farmers and their families on questions of general interest have been pepand not at all obscure. As to whether or not they have been just and accurate is the contention which is causing some heated discussions.

so she knows whereof she speaks, and she heartily indorses Dorothy's article in the issue of November 27 on "The Country's Attitude Toward Life's Refine-ments."

Of course, exceptions to this general today toward all evidences of gentle breeding is that of scorn. Table etiquette or spoon to help himself from any article of food on the table.

is "what's good enough for me is good enough for anybody;" "no use in fussin' about such fool things."

This eminently selfish viewpoint, "What's good enough for me is good enough for anybody," is the keynote of such people's existence. They have absolutely no appreciation of anything which is not a necessary element in their daily existence.

The writer has known farmers and farm hands, who have evidently not considered commensurate with their dignity to take a bath oftener than once a year. "They were clean;" they always washed their hands and faces before meals. was dirty work. What could you "We could send flowers-" began an-Imagine a woman married to other, "but-" Farming was dirty work. What could you such a savage! Reeking with the odors of stale perspiration, the stable and tobacco, could he be anything but disgusting to a womanly woman? Many country people still decry the line of demarcation between "honest country toilers" "uppish city people." Could they but realize the fact, the mote as often as not is in the country dweller's eye. There is, on the whole, a broader charity toward their faults; a more thoro appreciation of their values and a more helpful spirit country brethren today, than has ever been shown by the country people toward the city dweller.

It would add to the happiness of everyone, no matter where he dwells, to pay more heed to life's little refinements, for these give evidence of gentle breeding, and good breeding is the inborn consideration for the happiness of others; a taking care not to offend one's neighbor nor yet those of his own household. "EMBERS."

Owosso, Dec. 2.

#### A WARM DEFENSE FROM LAINGS-BURG.

I would like to say a few words to Dorothy Hudspith in regard to the article by her which was printed in the Michigan Farmer of November 27. I would like to enlighten her about the ways and manners of the present average farmer, for she evidently knows nothing whatever about the subject on which she wrote.

The farmers of this community, I should judge, are among the average farmers of Michigan. We count our best friends among these farmers and in justice to their manners are in no way similar to those described by her as the average sether all around except one side which them and to my family, I would say that farmer's manners.

Among my ten nearest neighbors there are five who always raise their hats when they meet me; and the others always have a friendly word of greeting. We value the friendship of the latter fully as much as that of the former. I have seen city men who make it a practice to raise their headgear to ladies and who, no doubt, know how to dip their soup and when to use their oyster forks, take a seat in a street car, and with a newspaper stuck up in front of them and a look of blissful unconsciousness on their face, keep that seat while there are ladies standing. Of course, I like to see men raise their hats to ladies, but the farmers

THINKS FARMERS COULD IMPROVE. are not the only ones remiss in gentle-manly manners; and the mere raising of Quick and Lasting The coming of Dorothy Hudspith to the the hat does not always show homage and

> I have lived among farmers all my and grunts that Dorothy Hudspith menworked," or "long suffering."

Of course, I have seen the women tired, and more or less haste in eating among the farm folks, but no more than I have seen among people of other occupations.

The writer is country born and has No, Dorothy Hudspith, the eating with spent practically all her life on a farm, the knife, the tea sucking and the smacks and grunts among the average farmers, disappeared about the time that the old log cabins and the oxen did. You also speak of the contempt the farmer has of the ways of the "better class." Now. let me tell you, there is no better class scoring are manifold, yet the attitude of than the farmers. There may be a richer a majority of the dwellers on small farms class, and there may be a class who think they are better, but there is no "better class." We would like to have you take a trip out here among us, and may do very well for the younger chil- you take a trip out here among us, and dren's "company manners," but bread altho you may find people who may have and butter plates are 'stuff and non- oysters for dinner and use no oyster forks sense" to the head of the house; who, if at all, your refined sense will not be ofhe se wills, uses his individual knife, fork fended by their eating with their knives and sucking their tea. You will find clean, honest, industrious, cheerful, gen-His attitude in the face of disapproval erous, educated, wide-awake people, who will make you welcome and who will not scoff if you have on your best clothes and your husband wears a collar and tie and patent leather shoes.

E. B. A. Laingsburg.

# POSTAL CARDS FOR THE SICK.

BY IRMA B. MATTHEWS.

A number of girls were discussing ways and means to cheer one of their number who was confined to her home by a long, tedious illness.

"We cannot visit her often," declared one, for she is so weak it tires her, yet I know she is often lonely."

"Don't," interrupted May Harvey, "you know sick people are liable to have fancies and she does not like cut flowers because she says they all die. If you send any be sure they are growing plants,

but I have an idea."
"What is it?" cried the rest, for May's

ideas were usually worth while.

"Post cards." "Post cards!"

"Yes, we could take turns so that she would receive one every day with some evidenced by city people toward their message written on. I believe she would enjoy that."

The idea was voted a good one and the next day the first card was handed the invalid. She was delighted and read it many times, then placed it where she could see it. The next day another came, and then another and another. She soon learned to watch eagerly for them and to wonder what they would be. Not only was it a pleasant break in the day, but as the collection increased, they were a source of never ending delight, and now that she has fully recovered they are among her dearest treasures.

At another time, wishing to remember an invalid friend at Christmas time, they gave her a post card shower. All her friends were invited to contribute to this and how the sick one did enjoy the remembrances. She went home before another Christmas, and they were glad, indeed, that they had made one spot of brightness in her life and in a manner that was no burden to the givers.

### A UNIQUE DOLL.

Last Christmas I made a cute doll in the following manner: I took a piece of calico, doubled it and cut it in the I left open so as to stuff it with cotton. Then I sewed it up. Paint the face and hair, crochet a dress and slippers of pretty yarn and it made a nice doll for a gift for a little one.-M. A. P.

### FOR A DAILY.

There is nothing published better than The Detroit Times. We send The Times and the Michigan Farmer a year each for only \$2.50, including a Class A premium. Send all orders to the Michigan Farmer.

See pages 542-543 for new free premium list.

# **Cure for Pimples**

#### Remedy Which Has Met With Astounding Success In Curing This Disease.

Acne, or pimples, is an eruption very frequently seen upon the faces of young people in their teens, although it may occur earlier or later than this period, in fact at almost any age.

This disease exhibits itself in the form of unsightly papules and pustules, commonly called pimples. Comedones, or blackheads, is often complicated with this disease, and add considerably to the unsightliness of the face afflicted with them.

Sometimes there are only a few irregularly situated pimples on the cheeks, forehead or chin, while in other cases, where the blood is extremely impure, the entire face becomes literally peppered with them, giving the countenance a most repulsive appearance, and exciting much unfavorable and derogatory comment and criticism by people on the streets and elsewhere.

Pimples are caused, secondarily, by an inflammation of the sebaceous glands and pores, while the primary, or underlying cause, is undoubtedly a depraved, morbid condition of the blood, and is a sure indication that the latter is filled with all sorts of impurities which should be eliminated from the system.

The purchase and application of salves, ointments, jellies, cold creams, etc., is a waste of time and money, for a blood disease cannot be cured by applying a mediciment to the skin.

All persons who suffer from pimples, boils, carbuncles, eczema, skin blotches, ulcers, scrofula, scurvy, and all other skin diseases arising from an impure and impoverished condition of the blood, should use STUART'S CALCIUM WAFERS, a remedy, the chief ingredient of which is calcium sulphide, the most powerful alterative and blood cleanser and purifier in

Many persons, after trying all sorts of remedies, local and general, have finally used these wafers, and have been completely cured of pimples, boils, and any other skin and blood diseases from which they were suffering.

In the treatment and healing of old ulcers which have long resisted every other form of treatment, Stuart's Calcium Wafers have been pre-eminently successful, while in old running sores, and pimply humors of the scalp with premature loss of hair, they have met with equal success.

Purchase a 50c box from your nearest druggist, and forward your name and address to the F. A. Stuart Co., 175 Stuart Bldg., Marshall, Mich., for a free sample package.

FOR YOUR IDEAS \$\$\$ Guide Book on Patents and What to Invent sent Free. C. PAGE JONES & CO 709 9th St., Washington, D.C.

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Direct from our shops to you-FREIGHT PAID. We Can Save You Money Why pay the long price?
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JOE'S HONEST HARNESS CO., Caro, Michigan.

# We PAY HIGHEST PRICES For

and also give you a share of the profit we make when we resell. Our new Profit-Sharing Plan makes Kann Returns larger than you would get elsewhere. Fair treatment guaranteed by our 20 years of fur buying. Express charges paid and settlements made immediately. Write today for Price-list and Profit Sharing Plan.

39 East 10th St., NEW YORK.

# Malt Coffee Malted from choicest Montana Barley, shipped in strong airtight drums, at.... 6c per lb.

Samples and Circulars Free MILWAUKEE IMPORTING CO.

506 37th Street

Milwaukee, Wis.



# THE MICHIGAN FARMER.

# ULTRY AND BEES

TRAP NESTS FOR HENS.

The trap nest is to the poultryman what the Babcock test is to the dairyman. That is, the trap nest will eliminate the poor hens as well as the Babcock test will show the dairyman the poor cows in his herd. However, it is easier to build up a good laying strain of fowls than it is to build up a good milk strain of dairy cattle.

There are many kinds of trap nests on the market and probably more kinds that are not on the market but have simply been devised by a practical poultryman for use in his own houses. Some of the nests that I have seen are very clever in the way they catch the hen, but I have never seen one that will rid the poultryman of the trouble of letting the hen out after she has laid the egg. If such a trap nest could be made it would be a great help. One of the reasons why trap nesting is not carried on much outside of the experiment stations and by a few who have much time to give to the poultry, is the fact that the almost continual

should be placed in the most secluded place in the henhouse, so that the fowls will be as little disturbed as possible. The fowls should become accustomed to being disturbed frequently before the real test is made. They are quite likely to drop off in egg production for the first few days of being handled, but they will soon become accustomed to it.

E. B. REID. Ingham Co.

#### SOME LAYERS' RATIONS, AND RE-SULTS THEREFROM.

I note Mr. Reid's article and editor's request for rations, results, etc., in the Michigan Farmer for November 27. the first place, I do not believe in copying your neighbors' rations for your hens, unless you copy them from the start in raising your stock. I am firmly of the opinion that chickens like best what they have become accustomed to, provided the ration is an intelligently compounded one.

The last thing I should think of doing would be to make any radical changes in the ration at or near the time I expected the pullets to begin laying. What will presence of a man is necessary to get bring eggs one fall, will, under like conproper results. The hens can not be con- ditions of age and condition of stock, fined in the nest for many hours after bring eggs the next fall, if the breed to

and out again without laying, as they shall be glad to advise Michigan Farmer often do, and they will not be retained readers from time to time as to what until they have laid. The trap nest, like any other nest, practical, it means less work. I shall hould be placed in the most secluded be glad also to see the reports of flocks they are doing, as, really, if the method is which I hope the editor's note will bring.

Maine.

D. J. RYTHER.

#### BEEKEEPING AS A WOMAN'S OCCU-PATION.

Since it does not require either hard physical labor, or any previous special training, but does call for the distinctly feminine traits of patience, tact and watchfulness; and since it promises in return both pleasure and profit, bee culture seems to me to be an almost ideal occupation for the woman who wants to emulate the busy bee and improve each shining hour. Aside from its attendant pleasure and profits, there is a peculiar fitness, in that a bee-hive is a living illustration of the applied principles of women's rights. In the bee colony the male is a necessary evil, or an evil necessity. He is hatched from an inferior egg, lives thru a neglected infancy, reaches a despised maturity, has his little day and is promptly pushed off the boards. To this rule he has no choice but to submit, since he is provided by nature with no weapon of self defence in the shape of a sting, and does not even possess a tongue, tho this perhaps would avail him little against so strong a feminine majority. Under this domestic feminine sway, the kingdom is ruled both well and wisely; so perfectly, indeed, that a bee-hive has always been held up as a model of good government. The woman who would prove the justice of her claim to a voice in the affairs of a nation, has her enemies on the run if she has her bee-hive in good working order. It is an irrefutable argument on her side of the question.

But while a woman would scarcely become a beekeeper for the sake of prov-ing an argument, she might well do it for the sake of the pleasure, aside from the that of the considerable profit which the occupation yields. Bee culture requires no great outlay of strength at one time, but to be a success there must be a faithful performance of many little duties. I would advise all who wish to keep bees to procure modern hives and fixtures Section honey is so much more attractive and nice to eat than the honey that is taken from the old-fashioned box-hives, filled with pollen, that there is no comparison; and so with extracted honey in comparison with what is termed strained honey.

New Jersey.

F. G. HERMAN.

Great Demand for Telegraph Operators.

The great building activity, both in the railroad and steamship line, has created a big demand for telegraph and wireless operators. There is but one school of note where this profession can be learned, that is the Dodge Institute of Telegraphy, at Valparaiso, Indiana. A great many young men from all over the United States, who are graduates of this school, have been placed in very fine positions. Mr. P. F. Godley, chief instructor in this school, is known as one of the best operators in this country. Those who are interested can secure a catalog by writing to them.

Durable Nails.

Durable Nails.

In this week's issue there is an advertisement of the Malleable Iron Fittings Co., Branford, Conn. They advertise zinc coated nails. They have been manufacturing these nails for about 30 years. They cost no more than other kinds, and last a great deal longer. They are rust proof and are much preferable to other kinds. If our readers do not find them on sale in their town, would suggest their writing to the manufacturers or have their dealer do so. While nails are not very expensive, the lasting qualities of a nail makes a lot of difference.

See pages 542-543 for new free premium offers.



# Honored by Women



When a Woman speaks of her silent secret sufferient secret sufferient secret sufferient secret sufferient secret suffering she trusts you. Millions have bestowed this mark of confidence on Dr. R. V. Pierce, of Buffalo, N. Y. Everywhere there are women who bear witness to the wonder - working, curing - power of Dr. Pierce's Favorite Prescription—which saves the SUFFERING SEX FROM PAIN, and successfully grapples with woman's weaknesses and STUBBORN ILLS.

IT MAKES WEAK WOMEN STRONG IT MAKES SICK WOMEN WELL

No woman's appeal was ever misdirected or her confidence misplaced when she wrote for advice, to the WORLD'S-DISPENSARY MEDICAL ASSOCIATION, Dr. R. V. Pierce, President, Buffalo, N. Y.

Dr. Pierce's Pleasant Pellets induce mild natural bowel movement once a day.

WANTED—FURS and HIDES.
We pay you the price on our list.
No more. No less! Write for price list and tags. H.
M. PETZOLD, 1038 S. Claremont Ave., Chicago, Ill.



# 90% Hatches

CYPHERS INCUBATORS rs Incubator Co., Department 3, N.Y.; New York City; Chicago, Ili.; Mass.; Kansas City, Mo.; Oakland, Cal.

EGGS Ic. A DOZEN It costs ic a dozen to preserve eggs from one to two-years by using the Yueili Chemicale Co's. Egg pres-ervative. Cannot distinguish them from newly laid eggs. Send for Circulars. YUEILL CHEMICAL Co., Dept. C. NAPERVILLE, ILL.

The Best in Barred Rocks, White, Silver and Golden Wyandottes, B. C. and S. C. White, Brown and Buff Leghorns, Silver Spangled Hamburgs, White Guineas Si each in lots to suit. Bronze, Buff and White Turkeys, all varieties of Geese and Ducks, largest and best collection at State Fair in 1909.

PARGAINS, TILL JANUARY 1.—Buff and White Orpingtons. B. Rock, W. C. B. Polish, Houdans, S. C. Black & R. C. White Minorcas cockerels, \$1.50 cach, few left. Satisfaction or money back.

H. H. KING, Willis, Michigan.

BARGAINS in S. C. Brown Leghorns, 100 year-bling hens \$1 each, best flock in Mich. First comes gets the pick. Order from this ad. Satisfaction. FRED MOTT, Lansing, Michigan.

SILVER Laced Golden and White Wyandottes. A C. W. BROWNING, Portland, Mich.

WHITE WYANDOTTE cockerels \$2.50, \$3, \$3.50, from heavy layers and State Fair prize winners. A. FRANKLIN SMITH, Ann Arbor, Mich.

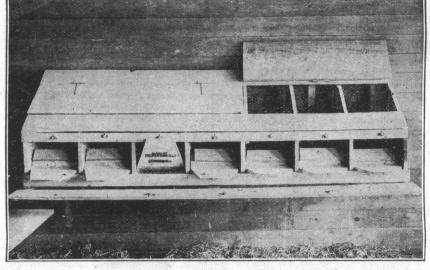
TRAINED FOX HOUNDS and Hound Pups for hunting fox and coons. Also Collies. Inclose 2-cent stamp. W. E. LECKY, Holmesville, Ohio.

FERRETS.

5,000 Ferrets Always buy Michigan fer-better climated. Price list and cir. free, DeKleine Bros, Box 41, Jamestown, Mich.

4,000 FERRETS—They hustle rats and rabbits. Prices and book free. N. A. KNAPP. Rochester, Ohio. ALWAYS mention the MICHIGAN FARMER

when you are writing to advertisers.



# One of the Many Styles of Trap Nests Now Used by Discriminating Poultrymen.

should be assisted in every way.

The method of making a record of the credited to the hen wearing that leg band number and at the end of the period of testing the total is easily obtained.

any more than is the time taken to test meal, 250 lbs; coarse wheat bran, 300 lbs. a dairy cow for the amount of butter-fat she gives in seven days or a month or The owners of cattle pay a tester two dollars per day and board and railroad fare. It would seem that the poultryman could afford to run his own test.

Most trap nests are built so that the weight of the hen closes the door to the nest and she can not get out until released by the poultryman. In some instances the doors of the nests are hooked open so that the pressure of the hen upon them when entering is sufficient to release the spring or hook holding them. Another kind has a door made of two pieces of metal which are hinged in the center and the lower half is swung up to the top of the nest; the hen in entering bumps her back against the hinge part of the door and releases the upper section which swings into place, closing the nest. One very practical nest I have seen is one in which the door is hung on a pivot, the front or top of the door swings ing down so that it forms an approach to the nest as shown in the illustration. The part which is inside of the nest is up into place more readily when the hen steps on the other end. When swung into place more readily when the hen can not be opened by the hen. Then there is still another kind of nest which is so constructed that the door does not close until the egg has been laid. This leased by the poultryman. In some inclose until the egg has been laid. This nest has an advantage over the others

they have laid and still be expected to do which the feed is given be the same. Of their best at egg production, and since, course, we do not expect a Barred Rock when the trap nest is being used, the hen or Buff Cochin to be as near laying at is supposed to be doing her best, she five months old as a breed whose standard weight is one to three pounds less.

I will give my rations, or the amount number of eggs laid by a certain hen is and kinds of grain fed, during the past simple enough. After the hen is confined two winters for December, January and in the trap nest and has laid an egg, the February; also number of hens, number poultryman releases her after taking the of eggs, feed cost and egg sales, for com-number on her leg band. The egg laid is parison with others who may furnish similar information regarding their methods and operations.

Grain fed to 70 Rhode Island Red pul-Many people who raise only a few lets, December, 1907, January, 1908, and fowls think that trap nesting is a lot of February, 1908: Wheat, 800 lbs; meat time wasted, but it is not time wasted scrap, 60 lbs; whole corn, 672 lbs; corn

Eggs	r.eea		
gathered.	Cost.	Sales.	Profit.
December 633	\$12.18	\$20.28	\$ 8.10
January 995	9.90	22.48	12.58
February 917	9.05	18.16	9.11
Three mos2,545	\$31.13	\$60.92	\$29.79
Grain fed to flo	ck of 2	220, abo	ut half
Reds and half Rock	ks, Dece	mber, Ja	anuary,
and February, 190	08-1909:	Wheat	, 1,900
lbs; meat scrap, 2	80 lbs; 7	whole co	rn, 784
lbs; corn meal, 700	lbs; co	parse br	an, 400
lbs; cracked corn,	800 lbs	; alfalfa	meal,

Eggs	Feed		
gathered.	Cost.	Sales.	Profit
December1,351	\$30.73	\$46.32	\$15.5
January2,140	30.27	61.93	31.6
February1,542	25.75	38.74	12.9
Three mos5,033	\$86.75	\$146.99	\$60.2
It will be seen	that th	he show	ing fo

ter, in proportion to the number I have. up to this writing (November 30), than in that the hens may go into the nests my moist-mash-fed ones did last fall. I

#### MICHIGAN CROP REPORT.

MICHIGAN CROP REPORT.

Wheat.—The condition of wheat as compared with an average per cent is 92 in the state and central counties, 90 in the southern counties and Upper Peninsula and 95 in the northern counties. One year ago the per cent was 75 in the state, 76 in the southern counties, 66 in the central counties and 83 in the northern counties. The total number of bushels of wheat marketed by farmers in November at 137 flouring mills is 207,732 and at 107 elevators and to grain dealers 149,022, or a total of 356,754 bushels. Of this amount 225,905 bushels were marketed in the southern four tiers of counties, 108,469 in the central counties and 22,380 in the northern counties. The estimated total number of bushels of wheat marketed in the four months, August-November is 5,000,000. Fifty-nine mills, elevators and grain dealers report no wheat marketed in November.

Rye.—The condition of rye as compared with an average per cent is 91 in the state and central counties, 90 in the southern counties, 94 in the northern counties and 92 in the upper peninsula. One year ago the per cent was 79 in the state, 80 in the southern counties, 73 in the central counties and 84 in the northern counties.

Live stock.—The condition of live stock thriout the state is 96 for horses, sheep and swine and 95 for cattle.

Fall Pasture.—The condition of fall pasture as compared with an average per cent is 77 in the state, 75 in the southern counties, 76 in the central counties, 83 in the northern counties and 88 in the upper peninsula.

#### NATIONAL CROP REPORT.

The Crop Reporting Board of the Bureau of Statistics of the United States Department of Agriculture estimates from the reports of the correspondents and agents of the bureau, that the newly seeded area of winter wheat is 7.9 per cent more than the revised estimated area sown in the fall of 1908, equivalent to an increase of 2,449,000 acres, the indicated total area being 33,483,000 acres.

The condition of winter wheat on December 1 was 95.8, against 85.3 and 91.1 on December 1, 1908 and 1907, respectively, and a ten-year average of 91.5.

The newly seeded area of rye is estimated as being 1.2 per cent more than the revised estimated area sown in the fall of 1908—equivalent to an increase of 25,000 acres, the indicated total area being 2,155,000 acres.

The condition of rye on December 1 was 94.1, as compared with 87.6 and 91.4 on December 1, 1908 and 1907, respectively, and a ten-year average of 93.9.

Details, by states, of the above crops will be published in the December Crop Reporter.

The final estimates of the total acreage,

Details, by states, of the above crops will be published in the December Crop Reporter.

The final estimates of the total acreage, production, and farm values of principal crops for 1909 will be issued on December 15.

#### CROP AND MARKET NOTES.

Washtenaw Co., Dec. 9.—Winter has come in earnest. The long spell of fine weather came to a very sudden end on the 5th and since that date we have had very severe weather but fortunately farm work was mostly done. A very small per cent of corn in the fields—five power huskers within a radius of two or three miles have enabled the farmer to get everything under cover. Crops have yielded very satisfactorily; corn more than an average crop; potatoes around 150 bu. per acre, and largely sold before the drop in price. Hogs scarce and breeding stock especially hard to find. There has been more fall plowing done than I ever remember to have seen, so farmers generally will be in a position next spring to hurry things. More farms have changed owners in the last year than in ten previous years and at an increased price, which goes to show that farming is getting to be considered one of the best paying propositions and I much doubt if we shall ever see farm lands, grains or meats much lower than they are today, so that we as farmers have much to encourage us in the outlook on these closing days of the year.

much lower than they are today, so that we as farmers have much to encourage us in the outlook on these closing days of the year.

Kent Co., Dec. 11.—There is now snow sufficient to cover the crops, and sleighs run fairly well. Times are quiet. Here in the potato belt times fluctuate with the price of potatoes. With potatoes at the 50c mark we should be enjoying lively times. Farmers are not inclined to sell potatoes at present prices. A change must come soon if the usual fife in the holiday trade is to be realized. Little stock is being fed for market in Kent county this year. A few farm sales have been held, the most noticeable feature of which was the high figure at which hay and grain sold. Clover hay was bid up to between \$14\$ and \$15\$ per ton. Many are shredding cornstalks as a means of aiding the hay mow. Should a mild winter ensue present stringent feed conditions will soften up later in the winter season. Cows for next year's cream trade are likely to bring fancy prices.

Livingston Co., Dec. 4.—The weather during November was all that could be desired and farmers have their fall work well out of the way. More plowing has been done this fall than for several seasons. Corn was a much better crop than was anticipated and it is practically all cribbed at this date. Clover seed that has been threshed is yielding well. Hogs are being rushed to market and Christmas will find very few hogs left to market. Very little grain is being marketed, farmers holding for higher prices. Many farmers are investing in manure spreaders, showing the popularity of these abor-saving and soil-improving machines.

### BRIGHT OUTLOOK FOR SHEEP

The ray of light that was discernable on the horizon of the sheep and lamb trade recently has developed into a bright, glowing sun and cloudless sky. Buyers are unable to conceal their urgent wants.

The outlet for mutton and lamb meats is again broad. This is a logical sequence of high priced beef and pork and practically the close of the western range shipping season. The general range of prices is the best in about a month. Tops lately made \$7.85 for lambs, \$7 for yearlings, \$5.25 for wethers and \$5 for ewes, indicating and advance of 50c to 75c over the recent low time of the season and 90c gain for sheep and around \$1.50 advance for lambs over one year ago. There is no fear of serious domination of the trade by buyers if marketing is judiciously done. The visible supply is by no means burdensome. The only apprehensions regarding the near future trade is that too many half-fat natives and westerns will be thrown upon the markets in the event of stormy weather and liquidation by weak-kneed owners. About this time of the year there is usually a heavy supply of ovine stock marketed that has been taken off grass and given a slight introduction to corn. If there ever was a time when longer and better feeding of thrifty, half-fat sheep and lambs paid it will be this winter. Buyers will continue eager takers of well-fatted offerings at relatively strong prices. But partly-fatted kinds will meet with narrower outlet. Buyers will make every effort to widen the spread between these two classes. A wise course to pursue this winter will be to let the fat lots come as fast as practicable and to hold back those in plain or medium flesh until they attain better condition.—Clay, Robinson, & Co.

#### Light on Buggy Buying.

Light on Buggy Buying.

New light on the buggy question is being given the public. So many wonderful claims have been made for low priced pleasure vehicles. Many offers have been held out and so much experience has been garnered, that the prospective purchasers may well ask what it all means. Naturally competition has produced recklessness in one quarter and another. Claims have become more startling and offers more and more and more "liberal." Buyers have become correspondingly wary. It is realized that a well known name and reputation are the only safe guide. Cautious buyers are now demanding even more than these. They insist that the firm shall have a representative within easy reach to whom they can go in case they are dissastified. The Michigan Buggy Company says some interesting things on this subject in its full page advertisement in this issue. This famous firm's advertisements are attracting attention the country over. Weight is given to its assertions by its enormous business covering a period of 26 years. "Reliable Michigan" is a household word among vehicle men. Incidentally 256 styles are offered this year by the Michigan\*Buggy Company. These include every kind of horse-drawn pleasure vehicle, buggles, phaetons, two-seated carriages, sleighs, pony-carts, etc. These as well as the famous Hold Fast blankets are described in the handsome new catalog which will be sent free to any reader on request. Address Michigan Buggy Co., Kalamazoo, Mich.

### Suggestions.

Suggestions.

The time of the year is at hand when farmers who have silos have already begun to feed out of them, and we are satisfied that these people that have silos are making a large saving in the cost of feed, and this is the time of the year for those people who are feeding their animals dry food of all kinds to go to the feeder of ensilage and see what he is doing, compare notes. We suggest this action because we are so thoroly well satisfied that the grower of corn has got to come to the use of the silo. Now we are not advocating any particular construction, altho we believe the stave silo, all things considered, is the cheapest on the market today. We know that is all right, but the feeding of ensilage has got to come because we find that it covers a greater field each year and our idea about the purchase of the silo would be the sooner a man puts it in the less it will cost him because he cannot expect to buy suitable material for any less money than he can today, and as this is the time of the year when a man should have a little leisure, if any time, he can make up this matter, get posted, look into it, and determine what he wants before he decides how he will plant his corn, or before corn planting.

### Potash For Sale to All.

For Sale to All.

Farmers who farm on bus' principles and fertilize their soils as a manufacturer puts money into a plant, for investment—have never needed much argument to be convinced that "Potash Pays," as the German Kali Works puts it. The trouble for the farmer has been not only the price, but the difficulty of getting potash at any price. The manufacturers have heretofore absorbed it all. All this has been changed, and thousands of farmers who farm for profit rather than for mere wages and a living, will not be able to buy all the Potash Salts they need, in any quantity they want it, of local dealers everywhere. And not only this—but they can get it at lower rates than have ever before been charged. This means that farmers can now invest in plant foods that they themselves can buy and mix—fertilizers without fillers or make-weights—and put the money saved from interest, freight, excessive profits on fillers and mixing charges into so much more actual crop-making fertilizer. The great German potash mines are now producing enough potash to enable the American selling agency to guarantee delivery of all that is required both by fertilizer manufacturers and local dealers and farmers. Ask your dealer to carry these invaluable salts in stock. Tell him to write to the German Kali Works, Continental Building, Baltimore, for particulars and prices. And we recommend you to write to them also, for their "Farmers' Note Book" and their valuable literature on fertilizing and cultivation. Mentown the more position of the next time you are in town.



# Feed your Corn and you will get this yield

Land must be renewed just as intelligently as you feed your live stock, to get results.

No grain crop takes so much from the soil as corn. Nitrogen, phosphorous and potash are the food it needs.

# Lake Erie Guano **Fertilizer**

contains all three, puts back into the soil the elements that make corn grow.

With Lake Erie Guano, only fair soil will yield 80 to 100 bushels. Use Lake Erie Guano this year and get more corn and better corn-large wellfilled ears, big well-developed kernels.

Remember it is easier and cheaper to keep your soil fertile than to rebuild it once it is gone. Write for free book.

The Jarecki Chemical Co.

SANDUSKY, OHIO

Agents Wanted





This Ad Saves Dealer, Jobber, Supply Men, Catalog-House Profits -Nobody Can Beat It

Buy direct from the biggest spreader factory in the world
—my price has made it. No such price as I make on this
high-grade spreader has ever been made before in all manure-spreader history. Here's the secret and reason: I make
you a price on one based on a 30,000 quantity, and pay
the freight right to your station. You only pay for actual
material, labor and one small profit, based on this enormous quantity.

# Galloway N Complete Spreader -BY FARMERS OF AMERICA

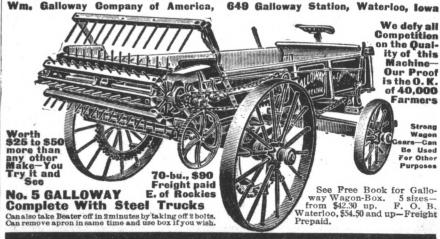
Get my Clincher Proposition for 1910 with proof—lowest price ever made on a first-class spreader. No. 5, complete with steel trucks, 70-bu. size; or Galloway Famous Wagon-Box, 4 sizes, from 50 to 60-bu.—with my agreement to pay you back your money after you try it 12 months if it's not a paying investment. How's that for a proposition? If I did not have the best spreader, I would not dare make such an offer. 40,000 farmers have stamped their O. K.

on it. They all tried it 30 days free, just like I ask you to try it—30 DAYS FREE.

Drop me a postal, and say—"Galloway, send me your Clincher Proposition and Big Spreader Book, Free, with low prices direct from factory."

T. F. Stice, Oswego, Kans., writes me—"Often pull it with my small buggy team. Does good work. Have always used the...before. Galloway much the best. If going to buy a dozen more, they would all be Galloways. Thousands more letters like these.

649 Galloway Station, Waterloo, lowa



Please mention the Michigan Farmer when you are writing to advertisers and you will do us a favor.

DETROIT WHOLESALE MARKETS.

December 15, 1909.

Grains and Seeds.

Wheat.—During the past week there has been a steady and consistent rise in the price of both cash wheat and futures. This advance has been marked by rather sensational fluctuations in the market, but each day's close has marked a gain of about ½c per bushel. The home situation in wheat appears to be unchanged. Sales from the farms of the country are small but the demand continues strong. The mills are taking everything offered at the advance and in many instances are unable to get enough grain for immediate demand and some are already cutting into their reserves. Very little wheat is moving in Michigan but Michigan mills report an increased demand for flour. It is freely predicted in market circles that growers who have been holding for \$1.25 will soon be able to close out their holdings at that figure. Statistics show a decreasing visible world supply with small receipts at all points. Good weather for harvesting in the Argentine, and less demand from frost than was expected, is the only bearish influence reported. The price of No. 2 red wheat on this market one year ago, was \$1.03½c. Quotations for the week are:

No. 2 No. 1

Red. White. May. July.

Thursday ... 1.21½ 1.21½ 1.24½ 1.02¾

Friday ... 1.22 1.22 1.24½ 1.02¾

Friday ... 1.22 1.22 1.24½ 1.02¾

Saturday ... 1.24½ 1.24½ 1.27 1.03¾

Corn.—Corn prices have kept pace with wheat during the past week, a consistent advance of 140 nm day hear.

Wednesday ..1.24 1.24 1.27 1.03%,
Corn.—Corn prices have kept pace with
wheat during the past week, a consistent advance of ½c per day being
made. It is not probable that this advance will continue as profit taking but
short interests and increased stocks in
store are proving bearish factors in the
market. One year ago No. 3 corn sold
for 60% in this market. Quotations for
the week are:

			N	0.3	Yellow.
Thursday					60
Friday				591/2	601/2
Saturday				60	61
Monday				611/2	621/2
Tuesday				62	63
Wednesd	ay .			62	63
Oate	Date	have	narti	botonio	in the

Oats.—Oats have participated in the general advance of other grains during the past week, altho the factors above mentioned together with considerable selling, makes the immediate future of this market uncertain, altho this grain is sure to remain staple. No. 3 white oats sold at 53c in this market one year ago. Quotations for the week are:

														Sta	ndard	1.
Thursday							٠.								45	
															45	
Saturday															451/4	
Monday															461/2	
															461/2	
Wednesd	a	v													461/6	
Deene																

Beans.—There has been no activity in this commodity during the past week. Nominal quotations remaining the same

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Cloverseed.—There has been an advance of about 20c per bu. for prime cloverseed since a week ago. Alsike has remained steady at former quotations. Movements have been liberal at the advance and some purchases of futures have been made at prices above the quotations. Quotations for the week are:

Prime Spot. Mar. Alsike.

Thursday \$90 \$9.10 \$7.85

Thursday	. \$8.90	\$9.10	\$7.85
Friday	. 8.95	9.15	7.85
Saturday	. 9.00	9.20	7.85
Monday	. 9.00	9.20	7.85
Tuesday			7.85
Wednesday	9.10		
RyeLast week	's price	is ruling	with
the market steady	. Cash	No. 1 is q	uoted
at 76½c per bu.			

at 76½c per bu.
Visible Supply of Grain.

This week. Last week.

Wheat 28,400,000 31,086,000
Corn 5,663,000 4,206,000
Oats 12,228,000 13,580,000
Rye 923,000 912,000
Barley 3,631,000 4,058,000

Darley		 0,0	01,000	4,000,	000
Flour,					
FlourMan					
last week's	basis.	Que	otation	is are	as
follows:					
Clear					
Straight					
Patent Michig	gan	 		6	.25
Ordinary Pat	ont			5	95

Patent Michigan 6.25
Ordinary Patent 5.95
Hay and Straw.—Market is unchanged and firm. Carlot prices on track are: No. 1 timothy, new, \$14.50@15; No. 2 timothy, \$13.50@14; clover, mixed, \$13.50@14; rye straw, \$7@7.50; wheat and oat straw, \$6.50@7 per ton.
Feed.—Market unchanged and steady. Bran, \$24.50 per ton; coarse middlings, \$25.50; fine middlings, \$29.50; cracked corn, \$27; coarse corn meal, \$27; corn and oat chop, \$23.50 per ton.
Potatoes.—No material change can be claimed in this deal. The quality of offerings has quite a range while values keep near to where they have been the past few weeks. The cold weather has diminished the volume of receipts. Michigan grown are selling in car lots at 35c per bu. in bulk, and in sacks at 38@40c.
Provisions.—Family pork, \$26@26.50; mess pork, \$25.50; medium clear, \$25.50@26.50; pure lard, 14%c; bacon, 17@17½c; shoulders, 12½c; smoked hams, 15c; picnic hams, 12½c.

Butter.—Creamery butter made another

advance of a cent the past week. Values are now getting so high that many consumers are turning their attention to substitutes and thus reducing the demand, but the trade is firm at the new figures and everyone is expecting still higher values to prevail. Dairy goods remain unchanged. Quotations are: Extra creamery, 34c per lb; first do., 33c; dairy, 24c; packing stock, 22½c.

Eggs.—Market was steady the past week and there is no alteration of prices. Fresh eggs are coming more freely than they were but demand is good. Current offerings, cases included, are quoted at 28½c per dozen.

Poultry.—The prospective holiday demand has been a strengthening factor in the poultry market. Prices will likely be improved within the next few days but now they are steady at last week's basis. Turkeys do not appear to be plentiful. Quotations for the week are: Live.—Spring chickens, 13c; hens, 12c; ducks, 14c; geese, 15c; turkeys, 16@17c. Dressed.—Chickens, 13g14c; ducks, 14d15c; geese, 12c; turkeys, 16mburger, 17c; schweitzer, 21c; brick cream, 18c per lb.

Calves.—Choice to fancy, 11½@12c; ordinary, 8@9c per lb.

Fruits and Vegetables.

Cabbage.—Steady. Home-grown, \$1.25

Fruits and Vegetables.
Cabbage.—Steady. Home-grown, \$1.25

Onions.—Domestic offerings 65@70c per

Onions.—Domestic offerings 65@70c per bu. Spanish, \$1.40 per crate.
Apples.—Snow, \$5.50@6; Spy, \$2.25@
\$3.50; common, \$1.50@2.50 per bbl.
Cranberries.—Cape Cod berries selling at \$2.25@2.50 per bu.
Vegetables.—Beets, 45c per bu; carrots, 45c per bu; cauliflower, \$1.25 per doz; hothouse cucumbers, 75c@1.25 per doz; green onions, 12½c per doz; green peppers, 75c per bu; mint, 25c per doz; green, 25@40c per doz; spinach, 60c per hamper; turnips, 30@35c per bu; watercress, 25@30c per doz.

#### OTHER MARKETS.

Grand Rapids.

Grand Rapids.

Wheat, oats and corn are a little higher this week, the advances ranging from 20c. Euckwheat is 5c lower. Butter and eggs are firm and higher, creamery advancing 1c, while eggs are up ½c. The potato market is steady, buyers at loading stations offering 25@30c, with movement very light. Dressed hogs are firm at 10½c, and some farmers are getting 11c. Poultry is unchanged, with exception of spring ducks, which are 1c higher. Glass farmers, who have large quantities of lettuce to cut, report a dull market and low prices.

Quotations follow:
Grain.—Wheat, \$1.19; oats, 47c; corn, 60c; buckwheat, 55c per bu; rye, 68c.
Beans.—Machine screened, \$1.80.
Butter.—Buying prices, Dairy, Ne. 1, 25c; creamery in tubs or prints, 33c per lb.
Eggs.—Case count, 27@28c.
Apples.—45@65c.

per lb.
Eggs.—Case count, 27@28c.
Apples.—45@65c.
Vegetables.—Potatoes, 35@40c; onions, 50@60c per bu; cabbage, 30@40c doz; cauliflower, \$1.50@1.60 per doz; beets, 50c per bu; carrots, 40c; turnips, 35c; Hubbard squash, 1c lb; celery, 12½c; parsley, 20c doz; cucumbers, 80c doz.
Hogs.—Dressed, 10½c.
Live Poultry.—Fowls, 10½@11c; roosters, 8@9c; spring chickens, 11@12c; spring ducks, 11@12½c; young geese, 9@10c; young turkeys, 17@18c.

Chicago.

Wheat.—No. 2 red, \$1.25@1.28; May, \$1.10%; July, \$1.00. corn.—No. 3, 61%c; May, 66%c; July, Oats.—No. 3 white, 44@44½c; May,

44%c.
Butter.—The market is higher for both dairy and creamery butter in harmony with the local conditions and outside quotations. The trade is strong at the advance.

Creameries, 27@32c; Jairies, 25@20c

Eggs.—Prices \*unchanged and market steady. Prime firsts, 30½c; firsts, 28½c; at mark, cases included, 20½@25½c per

stock: State and Michigan potatoes in bulk now selling at \$1.50@1.75 per 180 lbs.

Hay and Straw.—Prices advanced the past week and market is steady on the largely 25c lower.

new basis. Hay, timothy, prime, large bales, per 100 lb., \$1.02½; No. 3 a 1, 85c@ \$1.00; shipping, 82½c; packing, 50@55c; clover and clover mixed, 80@95c; straw, long rye, 80@85c; short and tangled rye, loc; oat and wheat, 55c.

closing, when medium and plain cattle were 10@15c lower than a week earlier.

Trains came in slowly, and values were largely 25c lower.

Hogs were marketed last week in much smaller numbers than in recent weeks or recent years, and the same was the case other western points. Cold weather made a large demand for fresh meats, and between this outlet and the large requirements for the cured meats and lard

Boston.

Boston.

Wool.—Buyers are getting more and more anxious about the clip for 1910 and they are actively engaged in persuading farmers to sell, a work which is not easy since growers are well informed regarding the present value of this product and see nothing that will cause values to decline in the near future, consequently fear of losing by not making contracts is wanting. Quotations are: Ohio and Pennsylvania fleeces—XX, 37c; No. 1 washed, 40@41c; fine unwashed, 27@28c; %-blood combing, 36@37c; ¼-blood combing, 36@37c; ½-blood combing, 36@37c; ½-blood combing, 36@36c; ½-blood combing, 36@36c; ½-blood, 39c; delaine unwashed, 35@36c; ½-blood, 33@34c. Kentucky, Indiana and Missouri—%-blood, 34c; ½-blood, 32@33c.

Butter.—Market firm at 34c per lb., which is 1c above last week's price. Sales for the week aggregated 629,300 lbs., compared with 637,300 lbs. last week.

#### THE LIVE STOCK MARKETS.

Buffalo.

December 13, 1909.

(Special report by Dunning & Stevens, New York Central Stock Yards, East Buffalo, N. Y.)

Receipts of sale stock here today as follows: Cattle, 200 loads; hogs, 24,000; sheep and lambs, 23,000; calves, 1,000.

On account of the heavy run of cattle in Chicago today our cattle market here showed a decline of from 15@25c per hundred on all kinds except the prime Christmas cattle, one load of the latter kind selling as high as 8.25. After this big run is over we look for an improvement in the trade. We do not think there is any big supply on hand to come to market right off. The fresh cows and springers sold today from \$3@5 per head lower than last week. Late springers are not wanted and are very hard to sell. We quote: Best export steers, \$6.50@7; best 1,200 to 1,300-lb. shipping steers, \$6.25@6.50; best 1,100 to 1,200 do., \$5.50@6; medium 1,050 to 1,150-lb. steers, \$5@5.25; light butcher steers, \$4.75@5; best fat cows, (fancy shade higher), \$4.50@5; fair to good do., \$3.50@3.75; trimmers, \$2.50@2.75; best fat heifers, (some fancy 6c), \$5@5.25; fair to good do., \$4.25@4.50; common do., \$3.50@3.75; best feeding steers, \$90 to 900 lbs., \$4.25@4.50; common do., \$3.50@3.75; stock bulls, \$3.50.30.25; best fresh cows, \$4.60@3.80; little common stockers, \$3.25@3.35; best bulls, \$4.50.65; bologna bulls, \$3.50@3.75; stock bulls, \$3.60.25; best fresh cows, \$4.60.25. with heavy receipts of hogs in Chicago and a liberal run here our market opened strong 10c lower than Saturday and closed steady with the opening. About everything is sold that got yarded in time for the market.

We quote: Choice heavy, \$8.65@8.70; mixed and medium, \$8.60@8.65; best yorkers, \$8.50@8.60; light yorkers and pigs, \$8.25@8.40; roughs, \$7.80@7.90; stags, \$7.07.25.

Owing to a good many lambs being late in arriving we obtained strong prices for

\$7@7.25.
Owing to a good many lambs being late in arriving we obtained strong prices for lambs this morning. With heavy receipts we think they may sell a shade lower the last of the week. About everything is

last of the week. About everything is sold tonight.

We quote: Best lambs, \$8.60@8.65; fair to good, \$8@8.50; culls, \$7@7.50; skin culls, \$4.50@5.50; verlings, \$6.75@7.25; wethers, \$5.50@5.75; ewes, \$5@5.25; cull sheep, \$2@4; best calves, \$9.50@10; fair to good, \$8@9; heavy do., \$4@4.50; grass, \$3@3.25.

Chicago.

Eggs.—Prices 'unchanged and market steady. Prime firsts, 30½c; firsts, 28½c; trasrk, cases included, 20½@25½c per dozen.

Hay and Straw.—Market strong at higher prices. Quotations: Timothy, 50 choice, \$18@18.50; No. 1, \$16.500 at 1.50; No. 2 and No. 1 mixed, \$15.50@16.50; No. 8. and No. 2 mixed, \$12.50@16.50; No. 8. and No. 2 mixed, \$12.50@16.50; No. 8. and week ast year. 31,375 52,362 38.527 No. 2 and No. 1 mixed, \$15.50@16.50; No. 8. and week ast year. 31,375 52,362 38.527 No. 2 and No. 1 mixed, \$15.50@16.50; No. 2 and No. 2 mixed, \$12.91½co. 1.50; No. 2 and week ast year. 79,549 232,815 117,940 at 22.815 22.82 and week last year. 79,549 232,815 117,940 at 22.815 117,

smaller numbers than in recent weeks or recent years, and the same was the case at other western points. Cold weather made a large demand for fresh meats, and between this outlet and the large requirements for the cured meats and lard trade, there was a big call for desirable droves of hogs. The market developed an unusually firm undertone, and hogs sold at the highest prices recorded this year, with fluctuations within remarkably narrow limits. The receipts showed up well in quality, and everything with weight went like hot cakes, while young hogs adapted for the fresh pork trade sold briskly. The week's packing at western points aggregated but 540,000 hogs, compared with 825,000 a year ago, while total western packing from November 1 amounts to 2,770,000 hogs, a decrease of 1,095,000 hogs compared with a year ago. The average weight of last week's receipts was 218 lbs., compared with 214 lbs. a year ago. Three years ago hogs received averaged 251 lbs. Today, Monday, hogs were active at an average decline of 5c, sales being made at \$8.100 8.60. Best light sold at \$8.50, while pigs sold at \$6.700 8.20 and stags at \$8.6500 9.15. Boars sold largely at \$5.2505.50.

Sheep and lambs were marketed last week much less freely than a year ago and in much smaller numbers than several years ago, when there were good shipments from Idaho and other ranges. The demand for fat flocks adapted to the wants of the Christmas holiday trade was extremely large, and the limited offerings sent prices up sharply all along the line, the medium and good lots being taken largely as substitutes for prime stock. Lambs found buyers at \$5.06.50 for the poorer kinds, while the choicer lots were taken at \$7.7508.40, the top being 55c higher than a week earlier. Similar advances took place in sheep, and yearlings sold briskly at \$6.2507.65. Wethers sold at \$60.000 prices lost much of the advance. Today saw further sharp breaks, and the best lambs went at \$8, while best yearlings were quotable at \$7 and best sheep at \$5.85, some prime extra heav

#### LIVE STOCK NOTES.

Abraham Cain, the prominent cattle feeder of Calhoun Co., Ia., says that Iowa, Missouri and Illinois never had so few cattle of their own raising as now. Cattle feeders used to buy cattle in their vicinity, but now nearly all such cattle are shipped to the big markets.

Prime flocks of mutton sheep and lambs have been selling recently in Chicago and other markets at fancy prices, with only moderate offerings and a lively demand for the Christmas holiday trade. Less feeding than usual is being carried on in most sections, and sheepmen who produce prime mutton are pretty sure to reap liberal profits before the season is over. Too many farmers go into the business without proper equipments, and lack of shed shelter has already forced thousands of partly fattened sheep and lambs on the markets of the country. Recently the supply of prime fat lambs has been greatly inadequate, and in many instances packers and butchers have purchased light-weight yearlings as substitutes for lambs.

light-weight yearlings as substitutes for lambs.

There has been extensive marketing of short-fed half-fat cattle in recent weeks to save corn, and matured beeves are scarce nearly everywhere, indicating a continuance of high prices for such, but there will be plenty of the cheaper kinds of cattle, and these are in largest demand on the whole. Of late there has been a particularly good demand for food cattle that could be made into moderate-priced beef in retail markets, and fat cows and heifers have also had a good demand.

Isaac Shanton, of Jefferson Co., Iowa, a young stock feeder, bot in the International show ring a car load of two-year-old Angus steers that he intends to finish off for the thiree-year-old class at the International Live Stock Exposition next

International Live Stock Exposition next

International Live Stock Exposition next year.

Regarding the grand champion steer at the International Live Stock Exposition the general opinion was that his strength was in his meat, there being a remarkable preponderance of the choicest cuts, his hindquarters being rather disappointing. He ranked with the average champions in exhibits of the past ten years and was a credit to Kansas.

A Spreader For All Farmers.
We want to call our readers' attention to the advertisement of the Chase Manufacturing Company on page 516 of this issue. Here is a spreader that every farmer in America can afford to buy. It farmer in America can afford to buy. It will save you the wagon box, trucks and all for other uses on the farm. The Grinnell Detachable Spreader is a combined manure spreader and farm wagon. It is a machine that is certainly worth investigating. We have been advising our readers for years to invest in a manure spreader. We believe it to be a necessary machine for every farm.— Just write to the Chase Manufacturing Company, 159 Broad St., Grinnell, Iowa, for their catalog, fully describing this exceptional machine.

FOR YOUR HIDE'S SAKE Have it tanned with the hair on for coat, robe or rug. Send for price list. We pay freight both ways if four hides are sent at one time. THE WORTHING & ALGER CO., Hillsdale, Mich.

#### 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 Stock market report. You may have any edition desired. Subscribers may change from one edition to another by dropping us a card to that effect.

#### DETROIT LIVE STOCK MARKETS.

Thursday's Markets. December 16, 1906. Cattle.

Receipts, 1,209. Market steady at Wednesday's prices. Cow stuff and bulls 15 @ 25c lower than last week.

| Receipts, 1,209, Market stendy at Wednesday's prices. Cow stuff and bulls | State |

Bohm sold Fitzpatrick Bros. 4 heifers av 842 at \$4.50, 14 butchers av 665 at \$3.50.

Robb sold Mich. B. Co. 17 butchers av Bohm sold same 3 cows av 950 at \$3.50. Youngs sold Lingeman 2 steers av 815

t \$4.80. Robb sold same I bull weighing 1,400 t \$4.75. I steer weighing 1,160 at \$6. t \$4.75, 1 steer weighing 1,160 at \$6. Merritt sold Hammond, S. & Co. 2 cow nd bull av 1,265 at \$4, 6 cows av 983

2.50; choice heavy bulls, \$4.50; fair to good at \$4.75, 1 steer weighing 1,160 at \$6.

Merritt sold Hammond, S. & Co. 2 cow and bull av 1,265 at \$4, 6 cows av 983 at \$2.75.

Veal Calves.

Receipts, 479. Market steady at Wednesday's prices. Best, \$8.50@9.25; others, milch cows and springers, common, dull; good, steady.

Bishop, B. & H. sold Mich. B. Co. 2 av 130 at \$8.75, 5 av 135 at \$8.25, 1 weighing 120 at \$8.75, 20 av 135 at \$8.65; to Newton B. Co. 14 av 160 at \$9.10; to Sullivan P. Co. 4 av 95 at \$7, 11 weighing 180 at \$8, 75; to Hammond, S. & Co. 5 av 120 at \$8.75; to Hammond, S. & Co. 5 av 120 at \$8.75; to Hammond, S. Spicer & R. sold Nagle P. Co. 1 weighing 120 at \$8.75; to Sullivan P. Co. 1 weighing 120 at \$8.75; to Hammond, S. & Co. 5 av 120 at \$8.50, 4 av 110 at \$8.50, 4 av 110 at \$8.50; to Hundred.

Spicer & R. sold Nagle P. Co. 1 weighing 110 at \$6, 3 av 145 at \$8; to Sullivan P. Co. 1 weighing 120 at \$8.50, 4 av 125 at \$8.50, 4 av 125 at \$8.50 av 125 av 125 at \$8.50 av 125 at \$8.50 av 125 av 125 at \$8.50 av 125 at \$8.50 av 125 av 1

Cheney & H. sold Hammond, S. & Co. 6 av 150 at \$9.

Bergen sold same 8 av 145 at \$8.25.

Roe Com. Co. sold Newton B. Co. 6 av 150 at \$6; to Hammond, S. & Co. 5 av 130 at \$6, 23 av 150 at \$8.

Haley & M. sold Thompson Bros. 2 av 160 at \$9.

Krause sold Nagle P. Co. 11 av 140

Krause sold Nagle P. Co. 11 av 140

Sheep and Lambs.
Receipts, 3.39. Market steady at Wednesday's prices; 20c higher than last weeks.
Receipts, 3.39. Market steady at Wednesday's prices; 20c higher than last weeks.
Weeks.
Stomach Worms in Pigs.—I have some start to good butcher sheep, \$4495; culls and common, \$3693.75.0 Swift & Co. 110 lambs av 5a at \$2.20, 107 do av 55 at \$2.30, 3 sheep av 10 at \$2.75, 14 do av 90 at \$3.75, 15 lo do av 50 at \$4.50; to Nagle P. Co. 30 do av 60 at \$7.75, to Swift & P. Co. 30 do av 50 at \$4.50; to Nagle P. Co. 30 do av 60 at \$7.75, to Swift & Co. 36 do av 10 at \$7.75, 57 do av 80 at \$8.25, to Swift & Co. 36 do av 10 at \$7.75, 25 do av 50 at \$8.575, 44 do av 90 at \$8.25, to Swift & Co. 36 do av 10 at \$7.55, 57 do av 80 at \$8.25, to Swift & Co. 37 do av 80 at \$8.25, to Swift & Co. 37 do av 80 at \$8.25, to Swift & Co. 36 do av 10 at \$7.75, 57 do av 80 at \$8.25, to Swift & Co. 37 do av 80 at \$8.25, to Swift & Co. 37 do av 80 at \$8.25, to Swift & Co. 37 do av 80 at \$8.25, to Swift & Co. 37 do av 80 at \$8.25, to Swift & Co. 37 do av 80 at \$8.25, to Swift & Co. 37 do av 80 at \$8.25, to Swift & Co. 37 do av 80 at \$8.25, to Swift & Co. 37 do av 80 at \$8.25, to Swift & Co. 37 do av 80 at \$8.25, to Swift & Co. 37 do av 80 at \$8.25, to Swift & Co. 37 do av 80 at \$8.25, to Swift & Co. 37 do av 80 at \$8.25, to Swift & Co. 37 do av 80 at \$8.25, to Swift & Co. 37 do av 80 at \$8.25, to Swift & Co. 37 do av 80 at \$8.25, to Swift & Co. 37 do av 80 at \$8.25, to Swift & Co. 37 do av 80 at \$8.25, to Swift & Co. 37 do av 80 at \$8.25, to Swift & Co. 37 do av 80 at \$8.25, to Swift & Co. 37 do av 80 at \$8.25, to Swift & Co. 37 do av 80 at \$8.25, to Swift & Co. 37 do av 80 at \$8.25, to Swift & Co. 37 do av 80 at \$8.25, to Swift & Co. 37 do av 80 at \$8.25, to Swift & Co. 37 do av 80 at \$8.25, to Swift & Co. 37 do av 80 at \$8.25, to Swift & Co. 37 do av 80 at \$8.25, to Swift & Co. 37 do av 80 at \$8.25, to Swift & Co. 37 do av 80 at \$8.25, to Swift & Co. 37 do av 80 at \$8.25, to Swift & Co. 37 do av 80 at \$8.25, to Swift & Co. 37 do av 80 at \$8

from Thursday and everything was disposed of as soon as put in condition. We quote: Extra dry-fed steers and heifers, \$6; steers and heifers, 1,000 to 1,200, \$5@5.60; steers and heifers, 800 to 1,000, \$4.75@5.25; steers and heifers that are fat, 500 to 700, \$3.75@4; choice fat cows, \$4.50; good fat cows, \$3.75@4.25; common cows, \$3@3.50; canners, \$2.25@2.50; choice heavy bulls, \$4.50; fair to good bolognas, bulls, \$3.50@4.25; stock bulls, \$3.80@4.25; stock bulls, \$3.80@5.0; choice feeding steers.

CONDUCTED BY DR. W. C. FAIR, CLEVELAND, OHIO,

Krause sold Nagle P. Co. 11 av 140
at \$9.
Sandall & T. sold same 3 av 140 at
Sandall & T. sold same 3 av 140 at
Sharp sold Breitenback 5 av 120 at
Sk.75.
Wickmann sold Thompson 8 av 125 at
\$8.50.
Sheep and Lambs.
Receipts, 3,939. Market steady at Wednesday's prices; 20c higher than last
Sheep and Lambs.
Receipts, 3,939. Market steady at Wednesday's prices; 20c higher than last
Sheep and Lambs.
Receipts, 3,939. Market steady at Wednesday's prices; 20c higher than last

to ascertain if there is a foreign body in it, causing all the trouble.

Calves Scour.—My 3-months-old calves have been troubled with scours for the past three months; they are fed separator milk and hay. H. W., Milford, Mich.—Give 2 ozs. castor oil and a tablespoonful tincture opium and repeat the tincture opium doses three or four times a day until the bowels tighten, then give a teaspoonful bi-carbonate soda at a dose three times a day, and you may also give some blood flour.

Torpid Liver.—My 4-year-old mare is rather dull and dumpish; she is used for heavy hauling, but has become so weak that she is unfit to do very heavy work. She stands with her head down, coughs some, discharges a little from the nose and at times has bled at nose. I have that she might be coming down with distemper. T. K., Fennville, Mich.—It is possible that she may be developing distemper; however, I doubt it. Give 3 drs. bromide potash, ½ dr. ground nux vomica and 1 oz. bicarbonate soda at a dose in feed or as a drench three times a day. If the throat is sore or the glands swollen, apply equal parts turpentine, aqua ammonia and sweet oil to throat every day or two.

Indigestion—Shaggy Coat — Abnormal Teeth.—My 13-year-old mare has a long.

day or two.

Indigestion—Shaggy Coat—Abnormal Teeth.—My 13-year-old mare has a long, shaggy coat, eats grain all right, but does not eat fodder well, frequently dropping out large wads of hay; she is in poor condition. She had an abscess come under jaw which I treated according to your prescription and directions given in Michigan Farmer. She made a good recovery. J. R., St. Charles, Mich.—There must be some foreign body lodged in the mouth, perhaps wedged between her teeth or she may have an abnormal growth of tooth which interferes with mastication. If so remove obstruction or file away the abnormal projection on tooth. Floating (Continued on page 519).

# No Power Troubles

You can always make a steam engine go.
No tinkering and fussing with
something you do not understand with a

# LEFFEL **ENGINE**

Dependable, safe, economical. More power than you need. Engines in styles and sizes for all needs. Write for free book

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# & GRAIN

want to hear from shippers of Hay and Grain—Our service to large consumers in this district enables get top prices for good shipments. Liberal ad-site consignors. Daniel McCaffrey's Sons Co., Pittsburg Pa.

Ref.—Washington Nat'l Bank. Duquesne Nat'l Bank. Save \$10 Ton on Feed.

#### CUDDOMEAL COTTON SEED FEED

Contains 15 to 18 per cent protein, 6 per cent fat: three times more protein than corn: 50 per cent more than wheat bran.

wheat bran.

It's an excellent milk producing feed; a fiesh producer for steers and sheep.

It's cheaper than bran. Costs \$10.00 to \$15.00 ton less than oil meal.

E. A. Stevenson, of Port Huron, who fed one car load of Cuddomeal last year and has bought two car loads so far this season, says "excellent results are obtained from feeding Cuddomeal both to milk cows and to krowing steers."

obtained from feeding Cuddomess out to and to growing steers."

A. E. Pierce, of Tecumseh, Mich., a sheep feeder who tried one ton in October, then bought a full car load, says "Cuddomesi is a satisfactory sheep feed."

INVESTIGATE. Try it, Feed one ton, then

you will buy more.

November price \$22.00 F. O. B. Jackson; or \$24.00 ton, freight prepaid to any town in Michigan, Ohio. Indiana. Mail Check or Money Order for sample ton,

THE BARTLETT COMPANY Cotton Seed Products. Jackson, Mich.



And Sanitary Pipe Stalls
make the most sanitary, strongest
and neatest appearing barn equipment. Send for descriptive circulars and get our prices before you
equip your barn.

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Only one single Dis

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the 6 and 7 foot sizes

THE BUCHER & GIBBS PLOW CO., 806 East Seventh St., CANTON, O

# HORTICULTURE

# FRUIT MEN AT KALAMAZOO.

ANNUAL MEETING OF MICHIGAN HORTICULTURAL SOCIETY.

The thirty-ninth annual gathering of the horticulturists of Michigan was undoubtedly the best meeting in the history of the society. Better attendance, more enthusiasm for Michigan, more earnestness for the fruit business, greater liberality in the discussion of important topics were never witnessed at any other gathering of the organization. Kalamazoo operations. This fruit also responds ad-Commercial Club entertained the visitors mirably to culture like the best farmers in their beautiful city, on December 7-8-9. It was unfortunate that during the meetings one of the worst fires that has visited that city occurred and destroyed nearly a million dollars worth of property, and disturbed the program to some extent, but the wide-awakeness of the local commitprevented the meetings from suffering, and despite the catastrophy, which brot to the citizens of that city the deep sympathy of every visitor, the disturbance states from a distance, while her crop was overcome and the program com-Reports common thruout this section of

the country of the superior fruit industry of the west, were challenged at the This is one of Michigan's great adsessions, and a choir of men who have been thru the west studying the conditions under which western growers are working sing harmoniously of the superior those who knew, to impress the point that advantages Michigan producers have over those of our sister states in the far west. This spirit was evident thruout the ses-Especially among the apple growsion. who at the recent Chicago show, where there was a good opportunity to compare the products of Michigan with those of Oregon and Washington, proved that the advantages largely lay with us. since not only in quality but also in other regards the Michigan product made as good a show as the fancy product from Hood River and thereabouts. The western men stole a march on us, but the Michigan grower has awakened to realize that the former's advantage was not one of inherent quality of the fruit but simply good effective advertising and first-class packing. This the Michigan grower believes he can do and the spirit present showed that he was ready to begin.

The sessions were held in the armory. On the lower floor was an exhibit of fruit, cut flowers, nursery stock, educational exhibits, and a splendid display of spraying machinery and other materials. This feature of the meeting was well patronized. It was a splendid opportunity for men to compare the different makes of machinery and the opportunity was taken advantage of. The fruit was of unusual good quality and the coloring of most of it was better than the average Michigan exhibit. which took place on Wednesday evening, resulted in the prizes being placed as follows: First prize went to Mr. Crane, of Fennville; second, to Mr. Tubergen, of Grand Rapids, and third to Mr. Vorhorst (failed to get his address). Colleges are eligible to enter in this contest and it has proven a most commendable part of the annual meetings since the practice gives these students a splendid start toward fitting them for judging fruit at county and other fairs and fruit exhibits.

The election of officers resulted in the re-election of last year's officiary, which testified to the very satisfactory work that is being done in every department of the organization.

The Papers and Discussions. In a carefully prepared paper, Hon. C.

J. Monroe, of Van Buren county, presented the topic

The Apple-Its Importance and Value to Michigan.

interests have crowded apples to the background, he went on to impress wheat crop of the time. Recently Mr. Monroe sent circulars to a number of different parties asking about the importance of the apple in their farming operations and received the following reports among others: One orchard of 12 acres cost \$1,000 for labor, gave gross returns ing to \$1,053, or net returns of \$786. A orchard which the owner wishes to pas- is not so crowding and less help will thus may be the most important element in

care, brot \$1,048 for the crop, making net renter should make a provision in the also proven satisfactory. The above proof 21/2 acres required \$366 to put in good out of the enclosure when they endancondition and gave a net return of \$1,544. gered the crop and that the tenant should mant. For summer spraying the propor-The chief varieties in these orchards were Baldwins, Greenings and Spys. Another orchard which came to the attention of the speaker had made an annual net return of \$800 for the past 15 years. This orchard consisted of 100 trees, 80 of which were bearing fruit. After carefully investigating the proposition with his splendid chance to know the advantages of other varieties of fruits, he was of the opinion that there is little question as to the superiority of the apple over other kinds of fruits from the standpoint of the pocketbook. Thinning was impressed upon him as an important part of the apple operations. This fruit also responds adgive their corn, to thoro spraying, good fertilizing, and to an abundance of sunshine. Regarding the marketing of fruit the topic has been much discussed but little progress has been made. Better packing is demanded and in this regard he that the grower was the one to remedy this defect. Inquiry showed that Michigan gets less for apples shipped in boxes on the Chicago market than do the put up in barrels is sold at about the same price. It costs on an average 17c to get our crop to that market while it costs the western grower about \$1.50. vantages.

lowed this paper, occasion was taken by geographically, naturally, and every other way Michigan was a favored apple producing point. In the recent Chicago apple show, judges declared in favor of the quality of Michigan fruit. In the west they grow quite as many No. 2's and 3's as we do here, but we do not see them. There, too, the growers are annually paying tribute to an asosciation. All along Pacific coast Michigan grapes are everywhere sold at from 35 to 40 cents per pound, while the local California grape is traded at 5 cents per lb. Neglected Apple Orchards-A Solution.

Mr. T. A. Farrand, of Eaton county, gave as his solution to the above problem the renting of these orchards by live young men who are willing to work and who will make a study of the need of the who puts up fruit in that manner, nego-orchards in question. The orchards are tiations for more fruit is likely to follow, to be found thruout the farming sections and when the seller has the commissione of the state. They are usually away from the fruit regions for in those communities there are men who ere this would nave appreciated their value. To the advent of the insect may be largely attributed the downfall of the Michigan apple orchards since the average farmer considers that he has no time to devote to the renovation of these trees and give them the care necessary. These orchards are largely in the hands of older men. In one section where the speaker rented five The students' judging contest or six orchards and began doing thoro the tables, while only about five per cent work, and where there had not been a single spraying rig, after the first season there were bot by residents of that "neck of the woods," a half dozen small and one large gaso ine spraying outfit. The result from the use of this machinery will revolutionize the attitude of the residents upon the apple proposition. Spraying appears to be the chief need. In the orchards rented by the speaker he has not cultivated or applied any plant food, only sprayed and pruned. Some men are renting orchards for \$100 and receiving \$1,000 from them the first season, while it is usually the experience that after the first than three years, better to secure the After commenting upon the fact that upon those having orchards and in many lime, 15 pounds of sulphur are used to Kalamazoo was the best and largest apinstances men are taking hold of the fifty gallons of water. This mixture can ple shipping point in the state from 1840 proposition, men who formerly could not, be boiled and set aside indefinitely if kept it. Cultivation aids in this, also land to 1860, and showing that since other under fire of the orator, have been from evaporating and used cold when warmed up to it.

Discussion.—He rents at a certain price the importance of the crop during these per tree. In deciding what a person can luted. Use about a gallon of water to early days, by comparing it with the afford to pay, the variety, age, vigor, bearing tendency and location of the tree for boiling. The advantage in using a as to markets must be considered. His cold mixture and in being able to keep the prices range from 30 to 50 cents per tree. While he knows that cultivation is a valuable thing for the orchard and will re- in the orchard and spray during odd times turn to the owner or tenant a splendid margin for the expense, yet he has found quire the available time to get the mixamounting to \$3,061 or net returns of it impossible to cultivate the amount of ture warmed up; and by being able to \$2,061. Another orchard of five acres cost orchard he had under his control because make the spray in the above manner much \$267 for care, gave gross returns amount- of the labor situation. As to renting an of the labor can be done when the work supply of plant food. Phosphoric acid

third orchard of 31/2 acres cost \$253 for ture, Mr. Farrand contended that the be required. Commercial lime-sulphur has determine when this time occurs. He tions should be about two pounds orchards but knows that on many occabe lost by doing the work at that season instead of in the spring. As to the question of puting the expense of culture into manure to be spread under the trees there conditions would need to be considered before deciding upon one or the other of these methods of feeding the trees.

Better Packed Apples. Mr. J. C. B. Heaton, of Illinois, who has made a reputation in that state for growing good apples and getting them to consumers in first-class shape, was assignment until reaching Kalamazoo, but He is unable to understand why product as good a price as they do. There materials than were formerly used. is nothing about the work but what any person who is awake can do if he wills, ter strength upon trees just before the Discussion.—In the discussion that fol- He should learn from each season how to blossoms appeared and discovered no illdo the work a little better the next. This effect to the foliage or the trees. will keep customers. One commission man known to the speaker travels 300 miles every year to get his fruit of a sulphur a better chemical combination certain person. He has purchased from that man for the past five years. During where most of the work with this spray the first two seasons an inspector was has been done it was determined that sent out to supervise the packing but one-half as much lime as sulphur proved since the house relies entirely upon the the best spray from the standpoint of honesty of the shipper, and on occasions before the car of fruit reaches the house mixture is made in a feed cooker it should the check is written and mailed to the be boiled longer than where cooked with seller of the fruit upon the latter's word. It is this confidence that should be established between seller buyer. and Proper packing will go far toward bringing such relations into existence. When the facers on a barrel or box is a true index to the remainder of the contents and the buyer gets the name of the man man coming his way then the former is in a position to say something about the price, the coveted position of every seller.

Discussion.-With regard to the responsibility of the grower for the condition of the market, it was stated that in collecting the exhibits for the recent apple show in Chicago, out of twenty-eight packers of apples who were asked to send a barrel of their best apples to the show for display, an average of about a half bushel in each barrel was worthy of a place on of the fruit sent to the exposition by the growers were discarded as not being fit to put before the public. This was taken to mean that packers themselves who have been making so much complaint about growers packing poorly are in a large part responsible for the present condition of the trade.

Scale and Scab.

Superintendent of the South Haven Experiment Station, Mr. Frank A. Wilken, held the attention of the large audinece upon this subject. These diseases are the chief cause of poor fruit. For the scale it is practically decided that lime and season better returns are had. For this sulphur is the standard remedy. The old reason it is advisable not to rent for less method of applying this wash was to boil up about 15 pounds of sulphur, 20 pounds orchards for a longer period as the work of lime to 50 gallons of water and apply put on them is cumulative and some of to the trees while hot, but the disagreethe benefits come after considerable time, able work of putting on this spray called ing a decided effect in many communities the spray as above stated, 8 pounds of desired. In boiling a more concentrate solution can be made and afterwards dieach pound of lime, or in that proportion, its effectiveness is that one can go out when under the old method it would re-

returns of \$795. Still another consisting contract that the stock should be turned portions are for the winter mixture and are to be used while the trees are dordoes not recommend deep plowing of old and three pounds of sulphur to 50 gallons of water. In treating for the scab it has sions splendid results have followed such been found that Bordeaux mixture russets treatment. With an old heavy sod it was the fruit and makes them less salable. stated that the ground could be gotten Other materials have been experimented in better condition by plowing in the fall, with but from the present findings limebut under some conditions fertility might sulphur used one-fifth the strength of the winter spray has given the best results. Thus far extensive experiments have not been conducted to determine if this remedy will work under all conditions but were varying opinions and it seemed that they have been carried far enough to point to a general use. It was found that the commercial lime-sulphur sprays gave about the same results in treating scab as the home-made product. When it came to mixing an arsenate with the lime-sulphur spray for controlling chewing insects arsenate of soda was found to be the most valuable. In keeping limesigned this topic. Thru a mishap in the sulphur, steps should be taken to prevent mails he had not been notified of the as- evaporating as the strength of the mixture will be changed thereby. Air tight this would not have been known had barrels have been used for the purpose statement of the fact been concealed, and at the Pennsylvania station vessels since the audience received many valuable were filled and over the top a surface of suggestions from his treatment of the parafine oil was placed with good results. It was noted by the speaker that there the farmer cannot pack his fruit as well is a tendency among practical fruit men-as the regular packers and get for the and investigators to use less of the spray

Discussion .- Mr. Wilkens used full win-Welch, of Allegan county, found that by using 10 pounds of lime to 15 pounds of was made. At the Pennsylvania station It was stated that where the keeping. steam. The summer strength had some effect upon the aphis and sucking insects but was not sufficient to control them, The spray does not kill scurvy scale as readily as it does the San Jose scale. Oil solutions were recommended to clean trees of scurvy scale.

Effects of Orchard Management Upon the Available Food Supply.

Prof. H. A. Huston, of Illinois, who spoke from his broad knowledge of the fertilizer field upon this topic took occasion to question the stand taken by many While it is claimed that authorities. there is sufficient plant food in the soil to last hundreds of years, yet when it. takes housands of years for this food to be made available, it becomes necessary to do something in the meantime to keep plants growing. He had observed that the systematic management of orchards usually begins when the orchard comes into bearing. This often is due to lack of capital, but one can grow other crops among the trees to pay the way of the orchard during the growing period, but in this connection it must be remembered that two crops require more food than one and the soil needs to be fed accordingly. He spoke of one orchard that was successfully producing five crops but that to do this it demanded a very careful and liberal food supply. Clover and barnyard manure will help maintain and perhaps increase the nitrogen supply. With too much nitrogen it is possible to delay the fruiting of the trees. To overcome this tendency the plant food should be balanced by adding other elements. Ofter the balance is brot about by taking out some of the nitrogen thru the growing of some grain crop on the land, but this was not recommended by the speaker. Nitro gen is made available more quickly by Potash is a most always cultivation. The result of the orchard work is hav for investigation and now instead of using present in the soil but not always in the same combination. Sometimes it is combined in such a manner that it must be relieved before plants can make use of plaster, or salt may get this potash ready for plants. But such methods taxes the future and will require that later much more of the element will need to be added from foreign sources. Most of the potash in the soil is in the form of feldspar. He does not think that we should hurry the product without destroying or reducing methods of nature in breaking down locked up elements. Acid phosphate contains gypsum which brings this combined potash into consummable form. We want to grow orchards so they will produce for a long term of years and to do this requires that we have a constant and held for the use of the plant. The nitrogen added in the form of barnyard soil is hungry for it. Unless the soil is and green manure is lost. satisfied it will rob the plant of the latter supply. This hungering of the soil must phosphoric acid be added in the form of acid be increased about two years before orchards should come into bearing, which

best time is when it is most convenient. free by the action of the gypsum. He would prefer the use of acid phosspoonful quantities aids in keeping away root lice.

#### Annual Banquet.

pared and well-served banquet which there available to the plants. played an important part in bringing the Thomas Gunson of the Michigan Agricul-This selection was a most happy one as Miss Jennie Buell, of Ann Arbor, repremanner. The banquet is proving an im- proper use of the chemical. portant feature of the sessions by giving the fraternal spirit, which binds closer than business or political relations, a chance to fraternalize the fruit men and women of the commonwealth.

The Wednesday morning session opened with a second discussion by Professor Huston, of Illinois, upon the topic

#### Supplementing the Plant Food Supply of the Farm and Orchard.

corn, eight tons of barnyard manure was applied. This application once every five years fully maintains the humus and somewhat increased the nitrogen supply. There was no effect upon the amount of phosphate in the soil but the supply of potash was diminished by 15 per cent. The yield of the crops was better than the average of the country but in all probability had the barnyard manure been supplemented with potash, the yield would have been materially increased. Because of this failure to properly balance the plant food in the soil, the professor

the orchard. This element must be fixed was of the opinion that much of the

The soil has the power of fixing potash and phosphoric acid. Altho where heavy be provided for before the plant will have applications of gypsum or lime are made a good chance. Hence it is desirous that some of these fixed chemicals may be this element be added to the land in released. The practice here should be, as liberal quantities. He recommended that it is in Europe, to have an excess of these two elements in the soil so as to make acid phosphate at the rate of 500 lbs. per use of the full amount of nitrogen added. annually in general practice. Also Many years ago, Professor Kedzie advised that the amount of potash and phosphoric the use of 400 to 500 pounds of acid phosphat per acre. The result of this was generally satisfactory, but the real cause practice would hasten fruit production, is somewhat confused, in as much as the Discussion.-In regard to the time for acid phosphate contains gypsum and it is adding fertilizer to the land, the professor not known whether the benefits gained stated that under general conditions the are from the phosphate or the potash set

Prof. Huston recommended for bearing phate to steamed bone. If, however, the orchards on ordinary land, the applicabone is used select that which has been tions of 400 to 500 lbs. of acid phosphate steamed most thoroly. In treating open and 100 lbs. of muriate of potash per soils he found that there was practically acre. On lighter soils he advised the use no difference between the muriate of pot-ash and the sulphate of potash. It has jate of potash. He maintained that the been observed that kanite used about the packing house productions were the most crown of the tree in two to three tea-expensive source of nitrogen. This element can be better produced on the farm. It has been contended that cultivation burns up humus. This should not be On Tuesday evening in the banquet held as a fault of cultivation but rather rooms of the Elk's Temple fully three a benefit for it is necessary to burn this hundred people sat down to a well-pre- humus in order to make the nitrogen

Discussion .- The organisms added to visitors close to the hearts of the citizens the soil when manure is applied aid in of Kalamazoo, and to each other. Prof. freeing the nitrogen in the manure as the soil when manure is applied aid in well as that contained in the humus altural College, was introduced by President ready in the soil. For this reason manure Smythe, as toastmaster of the occasion. is more valuable than the chemical analysis would indicate. Raw muck contains everyone who enjoyed the feast of good much nitrogen, but it is a much superior things that pleased both palate and mind, article after it has been frozen. It is will testify. Visitors from neighboring used considerably in compounding fertistates were called upon to respond to lizers. To get equal results from kanite, toasts regarding their respective locali- use four times as much as you would of ties, and the local interests made a splen- muriate or sulphate of potash. With redid showing thru the men who represent- gard to the use of lime, Prof. Huston aded them upon the evening's program. It vised that tests be made in a small way all showed Kalamazoo to be wide-awake. to see whether the soil responded to its use, or not, for it is possible to do consented the ladies in a most charming siderable injury to the land thru an im-

(Concluded next week).



Manures are valuable but are not, as generally accorded, the most valuable materials to add to the soil, according to the most careful experiments. For instance, a carload of stockyard manure which weighs about 18 tons will cost in the neighborhood of \$40 on the farm. Much of the plant food in this manure is not available until, 10 years or more have clapsed. If some of this capital had been invested in other forms of plant food, it would have become available much sooner. For this reason manure is more costly than we usually consider it.

It is not necesary to supplement barnyard manure with commercial fertilizer but it is often expedient in order that the greatest good be realized from the manure supply on hand. This is usually nitrogenous in character. Now, the amount of plant growth is limited by the amount of last name element. For this reason we are often at fault in applying manure excessively for it is not a well-balanced ration for plants. The failure of crops to respond to liberal applications of it indicates a too small supply of some element. At the Minnesota station a rotation consisting of corn, eats, wheat, clover and timothy was carried on a number of years. On the timothy sod which was plowed for corn, eight tons of barnyard manure was applied. This application once every five cern that has served the farmers well for nearly thirty years, a firm that sells direct at low factory prices and one that gives credit to worthy persons when asked to do so. This company has not advanced the price of its harrows, altho they are greatly improved; and any responsible farmer may order on 30 days' trial without making any deposit. Our readers who are in need of a disc will do well to send a postal to the address mentioned, asking for their large free book and freight-paid price list which quotes some mighty attractive figures.

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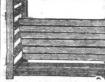
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THE ANNUAL MEETING.

The 17th annual meeting of the State Association of Farmers' Clubs convened in the senate chamber of the capitol building at Lansing, on Tuesday morning, December 7. The first session was entirely of a business nature and at this time the assembled delegates presented their credentials, paid the dues of the Clubs which they represented, and presented such resolutions as they desired to have considered by the State body. The Associational President also appointed the regular committee for the sessions, which were as follows:

which were as follows:

Committee on Nominations—D. K. Hanna, Caro; Clayton Cook, Owosso; A. R. Palmer, Jackson; Mrs. D. S. Morrison—St. Johns; Miss Helen Hankerd, Henrietta; E. C. Hallock, Almont; E. W. Woodruff, Blanchard.

Committee to receive and formulate resolutions—Chairman, James Fellows, Lake Odessa; Miss Alice Cronk, Battle Creek; Frank Norton, Harbor Beach.

Committee on Temperance—Chairman, Col. L. H. Ives, Mason; J. T. Daniells, St. Johns; E. Z. Nichols, Hillsdale; J. W. McKay, Spring Arbor; Helen Hankerd, Henrietta.

Committee on Club Extension—O. J. Campbell, Pompeii; John Lutz, Saline; Mrs. Fred Currie, Belding; Mrs. T. S. S. Curdy, Howeli; Mrs. George Graham, Romeo.

culture in recent years. He noted the great difference in conditions at the present time as compared with 17 years ago when the first session of this organization was held. At that time there seemed to be danger that the agriculture of our country would follow the same lines into which that of European nations had fallen, and that there would rise two great classes in the industry, viz., the landlord and the tenant. But the great and increasing prosperity of the industry has changed all this, and the progress in invention and manufacture as well as in the functions of the government itself has relieved the isolation of the farm family and brot to them the conveniences

the functions of the government itself has relieved the isolation of the farm family and brot to them the conveniences enjoyed by the city dweller.

Our rural delivery system was only an experiment 17 years ago at the inception of this organization. Even the most sanguine of us little thot that it would develop to its present day proportions so quickly. The telephone was little used in comparison with the present, and its general introduction into rural communities was almost unthot of. The trolley car has likewise done much for the country people in many communities and the automobile is destined, in President Snyder's opinion, to be the finishing touch upon the attractiveness of country life.

Amid these changed conditions, the

Amid these changed conditions, the speaker emphasized the importance of giving the farm boy some responsibility, to the end that he may gain valuable experience and a wholesome ambition upon the advertisements to appear in the back Amid these changed conditions, the the farm. The importance of an organi-zation like the Farmers' Club was em-phasized and the delegates were assured phasized and the delegates were assured sommittee to solicit ads, make contracts,

### Report of Associational Secretary.

Report of Associational Secretary.

It seems only a few months since we were making preparations to attend the annual meeting of 1908, yet it is exactly one year tomorrow since we assembled in this hall, and we are glad to see so many familiar faces and trust the new faces will become familiar.

For the average farmer this has been a prosperous year, and what better way of celebrating after the fall work is done, than to come to our capitol city and spend two days in the senate chamber to listen and to be heard on the topics of the day.

Surely this has been a remarkable year in state affairs, the affairs in many counties and in many road districts and these topics will be touched upon.

But in comparison, what about our Clubs of the state? Are they having a setback in any way? We hope not. While we do not report as many as one year ago, we know of some clubs that are much more active than for several years. In 1908 we reported just one new club. This year three.

January 1, 1909, we listed 125 Clubs in 31 counties with 7,000 members. During the year 12 have written they have gone out of existence, making 113 plus the three new ones—making a total of 116 that we have listed and we wish every Club in the state might be desirous of being on the state's list.

The three new ones are, East Cambria, Hillsdale Co., organized February, 1909; Hartland, Livingston Co., organized February, 1909; Riley, Clinton Co., organized February, 1909. Of the total 116 we believe all are active but four and we still hope to hear from these favorably during this meeting. They are, Farmers' Union of Tecumsch, Lenawee Co.; Jefferson, Hillsdale Co.; Montcalm, Montcalm Co.; Union Township, Isabella Co. The first and last mentioned are the only ones from whom the Associational Secretary has had no communication during the year. Of this total, only 80 Clubs paid their membership dues to the State Association in 1908. Can we not have a better representation at this meeting?

The amount of work done by your Associational officers and board has been about the carming the speciation of the carming the carming the seciation and officers and board has been about the carming the

Lake Odessa; Miss Alice Cronk, Battle Creek; Frank Norton, Harbor Beach.
Committee on Temperance—Chairman, Col. L. H. Ives, Mason; J. T. Daniels, St. Johns; E. Z. Nichols, Hillsdale; J. W. McKay, Spring Arbor; Helen Hankerd, Henrietta.
Committee on Club Extension—O. J. Committee on Credentials—Mr. T. S. S. Curdy, Howell; Mrs. George Graham, Romeo.
Honorary Members—J. T. Daniels, St. Johns; L. H. Ives, Mason; A. B. Cook, Owosso; I. R. Waterbury, Detroit.
Committee on Credentials—Wm. T. Committee on Credentials—Wm. T. Hill, Carson City; C. E. Cox, Bellevue; Mrs. S. Sadler, Chase.
Committee on National Affairs—Wm. T. Committee on Credentials—Wm. T. Hill, Carson City; C. E. Cox, Bellevue; Mrs. S. Sadler, Chase.
Committee on State Affairs—A. B. Cook, Owosso; D. S. Morrison, St. Johns; I. R. Waterbury, Detroit.
The Afternoon Session.
This session was opened by music furnished by the pupils of the Blind School, followed by invocation. when the address of welcome was given by President J. L. Snyder of M. A. C. In extending a welcome to the delegates. President Snyder made some interesting comments on the progress which has been made in agriculture in recent years. He noted the great difference in conditions at the present time as compared with 17 years ago

Adjourned to meet at annual meeting. The programs came from the printer November 2. On the following day, a program, a report blank, and two credential blanks were sent to each recording secretary of the local Clubs, and on November 4, programs were sent to the presidents.

presidents.

Programs have also been sent to all officers, ex-officers, and to many interested persons, and to the Lansing and Detroit dailies.

The letters of inquiry have been more numerous this year and each has been

answered to the best of your Associational Secretary's ability. The inquiries of the Prof. French's address of 1908; 1 for Prof. French's address of 1908; 1 for a copy of resolutions passed on state fair in 1908; 2 on how to join the S. A.; 1 as to when dues to S. A. should be paid; 2 as to whether the 1908 dues had been paid; 1 about individual dues; 3 on how to organize a new Club; 2 for local club constitution and by-laws; 1 for report of 1907; 7 for report of 1908; 6 for entire list of Clubs; 4 for entire list of secretaries; 1 for list of corrests of Jackson county; 1 for list of secretaries; 1 for what song book to use; 1 from Hon. Sam Smith about distribution of seeds to local Clubs; 1 to be placed on the 1909; program; 1 for the Associational Secretary; correct name and address; 1 for use of tary's correct name and address; 1 for use of tary's correct name and address; 1 for use of the American Agricultural Hand Book for the American Agricultural Hand Book for the American Agricultural Hand Book for the Hamerican Agricultural Hand Book for the American Agricultural Hand Book for the Peoprt of the secretary and two opportunities for th

seems very incomplete, for only 80 Clubs have returned the report blanks.

Total number of meetings held during the year, 790, with an average attendance of 45 total number of members, 5,450; total number of members one year ago, 4,900; 25 use yearly programs; 41 hold annual picnics; 19 hold Club fairs; 20 hold temperance meetings; 74 deaths during the year; 54 secretaries takes the Michigan Farmer. Of this number of Clubs 52 sent delegates to last year's meeting and all made reports.

Since 1896 the Michigan Farmer has been known as our Official Organ, and we wonder who has searched the Club page the most eagerly, you or the Associational Secretary. The reports from the local Clubs have shown much interest and activity in the work. But why do not all the Clubs report is the same old question?

est and activity in the work. But why do not all the Clubs report is the same old question?

The editor, our Ex-President, Hon. I. R. Waterbury, has spared no pains in making the Club page what it should be, and many thanks are due him from the officers of this Association for all he has done in behalf of the Association. Forty-five Clubs have reported thru this medium, two of which are not listed in our books. Are they in existence or have we them under some other name. They are, S. E. Vernon and Union of Oakland. The reports range from one to eight times, Ingham Club taking the lead. Odessa and Twentieth Century follow with seven, Ellington and Almer, Salem, Sherman, and Washington Center follow with six reports each. We notice, too, from these weekly communications a new county organization, that of three of the Clubs of Tuscola county, Indianfields, Ellington and Almer, and Hickory.

Also we notice papers have been published from seven different Clubs. This

lington and Almer, and Hickory.

Also we notice papers have been published from seven different Clubs. This feature we would heartily recommend.

The Associational Secretary has received many more letters telling of the work and workings of the Clubs than in any previous year.

Your secretary had the honor of being invited to the June meeting of the Maple River Farmers' Club, held at President Chandler's home in Owosso, and the August picnic of the Washington Center Farmers' Club, which was held at the M. A. C. Both days were thoroly enjoyed and we need not worry about these Clubs going out of existence.

We hope the Clubs here represented

We hope the Clubs here represented will receive enthusiasm from their delegates in attendance to last them thruout the year and we wish for each of you a very successful year.

MRS. W. L. CHENEY, Sec.

After a musical number, Ex-President C. B. Cook, of Owosso, gave an address on the fruit question, which will be summarized in a future issue. Mr. Cook is one of the state's most successful horticulturists, and his message upon this subject should be carefully read by every club member in the state. It will be presented in these columns at the earliest possible date.

The closing number of the afternoon program was a discussion of different phases of farm management by Messrs. A. R. Palmer, of the Columbia Club, B. H. Smith, of the Indianfields Club, E. W. Woodruff, of the Broomfield Club, and E. C. Hallock of the Berlin and Almont Club. These talks, in common with others of a practical nature delivered at this meeting will be reserved for a future issue, in phasized and the delegates were assured of a warm welcome to the city, and particularly to the college and the other institutions in which they were interested as citizens and taxpayers.

President Snyder's address of welcome was fittingly responded to by Hon. L. Whitney Watkins, of the Norvell Farmers' Club, and ex-president of the State Association. Then followed the report of the Associational Secretary, which we give by text as follows:

Report of Associational Secretary.

Report of Associational Secretary.

Report of Associational Secretary.

Adjourned to meet at annual meeting for The date of the annual meeting for Plans, subjects, and speakers were then details of programs and all other arrangements for the annual meeting for Plans, subjects, and speakers were then details of programs and all other arrangements for the annual meeting for Plans, subjects, and speakers were then details of programs and all other arrangements for the annual meeting for Plans, subjects, and speakers were then details of programs and all other arrangements for the annual meeting for Plans, subjects, and speakers were then details of programs and all other arrangements for the annual meeting for Plans, subjects, and speakers were then details of programs and all other arrangements for the annual meeting for the state organization may be touched upon in this general report. However, they should be watched for and carefully read by every club member in the state, as they are of the gratest practicularly to the state organization may be touched upon in this general report. However, they should be watched for and carefully read by every club member in the state, as they are of the gratest practicularly to the state organization may be touched upon in this send to report. However, they should be watched for and carefully read by every club member of the state organization may be touched upon in this cularly to the state organization may be touched upon in this cularly to the state organization may be touched upon in this cularly to order that matters pertaining more par-

president's annual address was delivered, and the suggestions in which prompted, in large degree, the action of the Association thru the committees who considered and formulated the resolutions which were adopted. This will, however, have to be deferred, in order that those resolutions, or as many of them as possible, may be presented in this issue. Those resolutions, which were submitted and

whereas, we believe good roads are beneficial to all. Therefore, we heartily endorseestate and national aid to the end that the farmer may be relieved of a portion of the cost of building and repairing public highways.

Whereas, We believe that the present law permitting the transportation of liquor into prohibition territory to be one of the greatest hindrances to the enforcement of temperance laws; Therefore, Be it Resolved, That we request our members in Congress to use their best efforts to prohibit the injustice of the liquor interests in forcing their traffic upon temperance people.

Resolved, That we call upon all wouldbe candidates for public office to declare their position on the several questions that are prominently before the people, that we may know whom to support at the primary election.

We believe that corporations whose business is in the nature of a monopoly or who sell their products in foreign fields at a less price than at home need no tariff protection. We also believe tariff duties should, as far as possible, be placed upon luxuries and not upon sugar, rice, flour and other necessities.

Whereas, We thoroly approve of the working of the pure food law and in conformity therewith oppose any effort to remove the tax on colored oleomargarine. Resolved, That we urge the adoption of some plan by which the services of the rural mail carriers in transporting small parcels on their routes may be available to farmers at a price which they can afford to pay.

State Affairs.

State Affairs.

Whereas, The people of Michigan will have an opportunity next year for the first time in the history of the state to place in nomination for election by the legislature a candidate for the office of United States Senator; and

Whereas, We know that the people of the state have heretofore had but little to say in the important duty of electing a representative of the state in the Senate of the United States, and realize that now, the people thru their legislature having reserved to themselves a voice in the election of that representative, we have a right to be heard and to take a part in this function of self government; therefore

part in this function of self government; therefore
Resolved, By the State Association of Farmers' Clubs of Michigan, that we believe the people of the State should take advantage of this opportunity to name a candidate who will represent them as well as the special interests, who will refuse to be subservient to the mouthpieces in the Senate of the trusts and monopolies of the country, and who will be a strong, powerful and progressive representative of all classes and interests of our commonwealth; and
Resolved further, That we condemn the base attempt now being made by certain federal office holders and active agents to pledge prospective members of the legislature regardless of the result of the primary for senator next September, and call upon the voters of the state to see to it that their representatives and senators in the next legislature are pledged to vote for the candidate for United States Senator who receives the state. greatest number of votes in the entire

greatest number of votes in the entire state.

Whereas, We realize that the educational influence of a state fair is great, and that the state of Michigan should have and can have a state fair second to none, and Whereas we are gratified at the effort which is being made by some of the state fair officials to terminate the sale of intoxicating liquors on the grounds and remove certain other objectionable features, therefore be it Resolved, That if said officials are successful in giving the people a strictly clean fair, that we extend to the state fair of Michigan our hearty and cordial support.

fair of Michigan our hearty and cordial support.

Whereas, We appreciate the general feeling of unrest that exists among depositors in banks as evinced by the interest taken in the question of the state guarantee of deposits, and also in the almost overwhelming demand for the postal savings bank, Therefore be it Resolved, that we call the attention of the bankers of the state and the state legislature to this very undesirable condition of unrest and ask them to co-operate in an earnest effort to devise some means to gain the absolute confidence and procure absolute security of the depositor and at the same time work no injustice to any banking institution in the injustice to any banking institution in the

My banking institution in the state.

Whereas, the word bank to the average citizen implies security whether said bank be national, state or private, and Whereas, we believe the private banks with no inspection or regulation by disinterested parties to be a standing menace to a great army of depositors. Therefore be it Resolved, That we petition the legislature to pass an act whereby every institution which makes it a business to receive deposits from the public, excepting national banks, will be compelled to come under the inspection of the state banking department.

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

#### STATE GRANGE IN SESSION AT TRAVERSE CITY.

The 37th annual meeting of Michigan State Grange, which will undoubtedly go into history as the largest and most successful yet held by the organization, its first session shortly before noon on Tuesday of this week. This brief session, which constituted the formal opening of the great meeting, was not far different from those of former meetings, the time being consumed by addresses of welcome from representatives of the city and of the Patrons of the Grand Traverse region, which were fittingly responded to by prominent mem-

asonably sure to be the largest of its kind ever assembled in this state, and a voting strength of 500 or 600 will occa sion no surprise. Then the fact that this meeting is being held in what has been considered comparatively new Grange territory, combined with that progressive spirit pervading the Grange in all pants of the state and freighted with new problems and new possibilities, promises to bring out an unusual number of visiting Patrons. Neighboring counties are making the most of this opportunity to show their loyalty to the organization and to gather inspiration for their future A number of them have installed attractive and appropriate exhibits their farm products, the same constituting a feature of this year's meeting which adds much to the enjoyment of the visitors. Leading merchants of the city have decorated their places of business with agricultural products, and on every hand there is evidence of a spirit of cordial welcome and fraternal interest in the organization which bids fair to make this meeting a memorable one.

The officers of the State Grange, who are filling their respective stations at this meeting, are as follows:

Master—Nathan P. Hull, Eaton Co. Overseer—Chas. A. Vandeventer Gratiot Co. Lecturer—Miss Jennie Buell, Washte-

naw Co.
Steward—T. E. Niles, Antrim Co.
Assistant Steward—Leon Haybarker,

Lake Co.
Chaplain—Mrs. O. J. C. Woodman, Van
Buren Co.
Treasurer—Frank Coward, Branch Co.
Secretary—J. W. Hutchins, Jackson Co.
Gate Keeper—G. A. Whitbeck, Muske-

gon Co. Ceres—Mrs. A. J. Kellogg, Oceana Co. Flora—Mrs. Ella Morrice, Emmet Co. Pomona—Miss Nellie Mayo, Calhoun

Co.
Lady Assistant Steward—Mrs. Leon
Haybarker, Lake Co.
Executive Committee—(Terms expiring
1909), F. G. Palmer, Gratiot Co.; H. F.
Baker, Cheboygan Co.; John K. Campbell Washtenaw Co. (Terms expiring
1910), Geo. B. Horton, Lenawee Co.; T.
H. McNaughton, Kent Co.; M. H. Burton,
Barry Co.; L. W. Oviatt, Bay Co.

#### TWO GOOD MEETINGS.

Master, whose administration began with the close of last year's State Grange meeting—a year which has been marked by aggressiveness and general Grange prosperity.

Tuesday evening will be given over to a short public meeting and a public reception, giving the citizens of Traverse City an opportunity to meet their guests. The city has announced that it is prepared to entertain 2,000 Patrons and the indications, at this writing, are that the total attendance will considerably exceed that figure. Last year 357 delegates presented credentials and constituted the voting strength of the meeting. With more than 90 Granges added to the roster during the past year, with every county in the state entitled to representation, with Pomonas organized in a number of counties since last year's meeting, and the contribute of a counties since last year's meeting, and the counties since last year's meeting and the counties since last year's state Grange held in Eaton Rapids, November 20, was well attend

### COMING EVENTS.



# Fences Cost the Least and give the most returns of any improvements on the tarm

Look around and see the farmer who has money in the bank and who buys another quarter-section every few years. See his farm -it is fenced hog-tight. What is good for him is good for you. Enough feed is wasted on the average quarter-section of unfenced fields to feed a large drove of hogs.

Any American Fence dealer will quote you figures that may astonish you on fencing your farm with heavy, hog-tight fence. You have no idea how little money it takes, considering what you will actually save.

American Fence is made of hard, stiff steel. It is made of a quality of wire drawn expressly for wovenwire-fence purposes by the largest manufacturers of wire in the world. Galvanized by the latest improved process—the best that the skill and experience of years has taught. Built on the elastic, hinged-joint (patented) principle, which effectively protects the stay or upright wires from breaking under hard

The real test of a fence is the service you get out of it. Test, judge and compare American Fence under any and all conditions and you will find that the steel, the structure and the galvanizing are equal in durability, strength and efficiency to the hardest usage.

#### F. Baackes, Vice-Pres. & Gen. Sales Agent American Steel & Wire Co. Chicago New York Denver San Francisco

NOTE—Dealers Everywhere. See the one in your town and have him show you the different designs and give prices. Also get from him booklet entitled "HOW TO BUILD A CHEAP CONCRETE FENCE POST," furnished free for the asking.



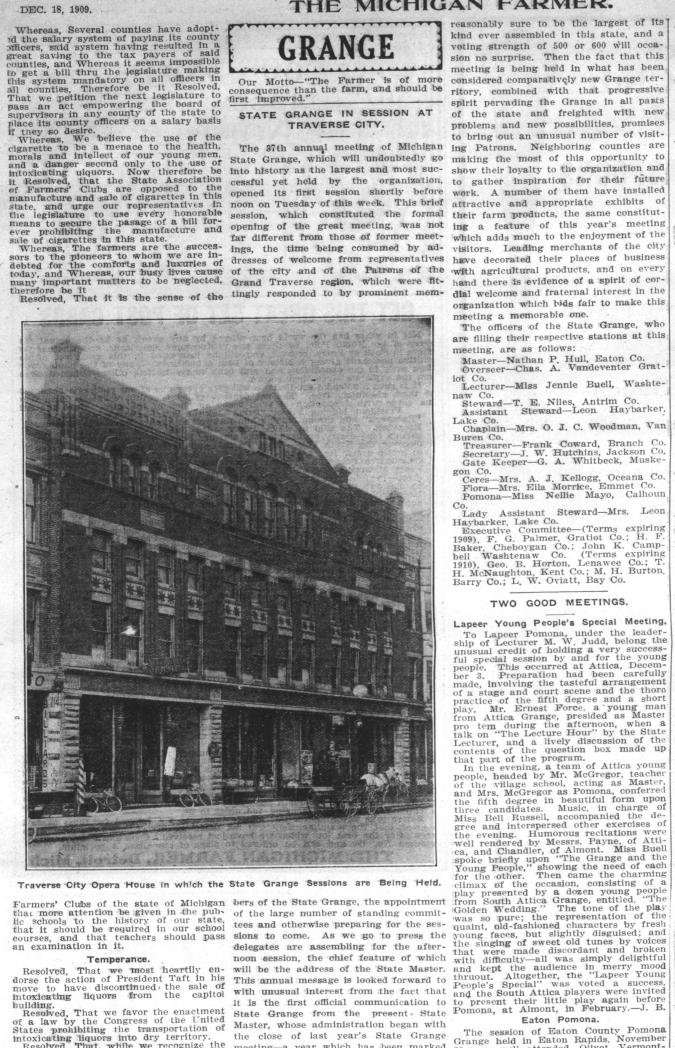
New Seed Oats. Big money in oats if you raise the right kind. Here's your chance to get them. Imported Candian Seed Oats for sale; extra fine. Send for free sample. It speaks for itself.

This same oats wesold last year in the United States and proved their merit and our statement that the farmers need a change of seed in this country. We make a specialty of growing extra fine seed oats on our big Canadian farm; new, clean land; no weeds. Have best known varieties. Regenerated Swedish Select went 116 bushels to acre this year; Early New Market, Canada's favorite, 110 bushels to acre. Both of these are big, early yielders. I believe it will pay you to get a change of seed. Try some of these oats, erage oats are inbred and run out. Canavernment Grain Inspector graded this grant white. Have stiff straw, white berry, thin ormous yielder. It is as easy to nut in and dian Government Grain Inspector graded this grain No. 1 White. Have stiff straw, white berry, thin husk, enormous yielder. It is as easy to put in and harvest a big crop as a small one. The reason your oat crop is not bigger is because your seed is run out. This has been proven. Look at this cut. Taken from photograph of two stalks from Galloway Brothers' field, over 200 kernels to the stalk. Write early for free sample, or, send ten eents for packet. Will also send you free bookletentitled "Big Money in Oats and How to Grow Them," by Galloway Bros. and Prof. M. L. Bowman, former professor of farm crops Iowa Agricultural College. Information in this book is priceless. Get it free.

GALLOWAY BROS.—642 Calloway Sta., Waterloo.le. GALLOWAY BROS.,642 Galloway Sta., Waterloo, la

SAVE 20% BY GRINDING The STAR SIMPLE SWEEP
MILL grinds ear corn or any
small grain. You get more
teeding-value from ground
teed and your horses do the
grinding. Profit comes to
Star owners from both ends.
FreeBooklet giving prices
on Sweep and Belt Powers.
The STAR MANUFACTURING CO.
TI Depot Street
New Lexington, Ohio





Traverse City Opera House in which the State Grange Sessions are Being Held.

# Temperance.

Resolved, That we most heartily endorse the action of President Taft in his move to have discontinued the sale of intoxicating liquors from the capitol building

intoxicating liquors from the capitol building.

Resolved, That we favor the enactment of a law by the Congress of the United States prohibiting the transportation of intoxicating liquors into dry territory.

Resolved, That, wifile we recognize the great advancement made in the cause of temperance, thru the county local option, movement, we believe that the temperance sentiment thruout our state has now reached that condition of earnestness which demands the mauguration of state-wide prohibition.

Club Extension.

coming year. (Continued next week).

Farmers' Clubs of the state of Michigan that more attention be given in the public schools to the history of our state, that it should be required in our school courses, and that teachers should pass an examination in it.

bers of the State Grange, the appointment of the large number of standing committees and otherwise preparing for the sessions to come. As we go to press the delegates are assembling for the after-

Club Extension.

Whereas, we believe the Farmers' Club to be of much value to any community. Therefore, we would suggest that a committee be appointed in each Club to have this work in charge. We recommend that those interested call a first meeting in some public place, church, schoolhouse or hall, and give at this meeting a clear idea of Club work, discuss nothing at first but farm topics, depend largely on the question box, have plenty of music, elect the right man for president, and be sure to report all meetings in local papers and Michigan Farmer.

Resolved, That each Club do its utmost to organize one new Club during the coming year.

Continued next week. the certainty of a much more general representation of the Pomonas because of The Michigan Farmer a year including a premium, costs 75 cents. What could make a better Christmas present, especially to a friend who that he could not afford to buy it—52 reminders a year. Pomona delegates the same mileage and per diem as delegates from subordinate Granges, this year's body of delegates is

Pomona Meetings.

# Join Our Five Year Club

and get this handsome set of

# WILDWOOD TEASPOONS

Reliance Plate is made by the Oneida Community and every piece is guaranteed for 10 years' wear. It is for sale by all leading jewelers (6 teaspoons for 90 cents) and in offering it to our readers we can guarantee its quality. Made on an 18 per cent Nickel Silver Base—5 oz. Silver Plate—25 per cent Heavier than Standard A1.

This set of 6 teaspoons can not be sold by any one for less than 90 cents, but we will send

The Michigan Farmer 5 Years \$2.18 and the Six Teaspoons for

The extra amount merely covers cost of packing, postage and insured delivery.

If you prefer we will send you this Handsome Berry Spoon



Length 834; Bowl 214x31/2 in.

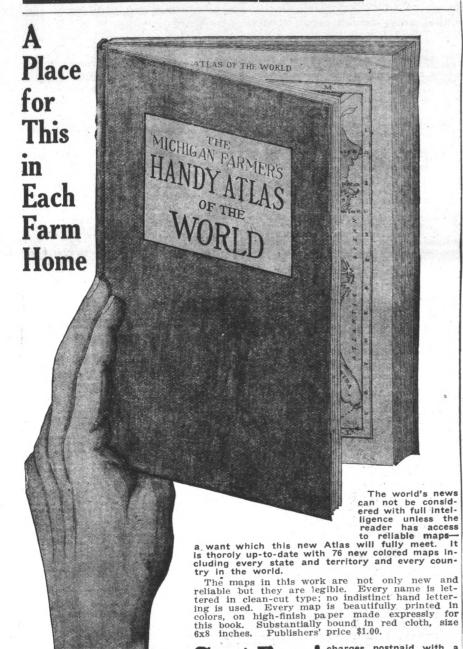
Instead of the six Teaspoons

It is the same design and quality and guaranteed for

10 years' wear.
For an order for 2 subscriptions (under above offer) we will give the one sending the order an extra set of 6 teaspoons or an extra serry spoon.
The 6 teaspoons are Premium No. 194. The berry spoon is Premium No. 195. Always mention Premium

THE MICHIGAN FARMER, Detroit, Mich. Present subscribers can order at once and have their subscriptions extended from time now paid to.



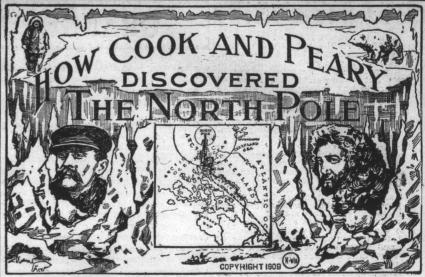


at \$1.50 or 5 years for \$2.00; or a subscription for one year and book for \$1.00.

Give your order to any of our agents or send direct to us. In ordering mention

Premium No. 196.

Agents' Notice.—This is a Class B premium. THE MICHIGAN FARMER, Detroit, Michigan.



# IS GREAT SET OF POST

Ret This Great Set of Post Cards

Not in years has the world been stirred by any event, as by the actual discovery of the North Pole, by these two venturesome Americans, and whether you believe in Cook or Peary, or both, you will be interested in this great set of descriptive postcards giving a history of both expeditions. Many of the photos were taken early in the expeditions and sent back to civilization, others obtained direct from the explorers since their return.

It is such a splendid set that we will give every one of our readers a chance to get them absolutely free. The set consists of 50 beautiful celluloid finish ductone cards with description of the cards of the card. Read the list.

"Rocevere" and through bidding him farewell at Cyster Bas's god at the earth's top.—Peary on deck of the stamer Roosevel tust before salling to discover the North Pole.—Capt. Bartlett and crew on the Roosevelt.—Peary in arctic dress, just as he appeared when he started to find the Pole.—Commodore Peary at work laying out his plans.—Mrs. Roht. Peary and her two children.—Peary's youngest son just prior to leaving Oyster Bay on his way to discover the Pole.—Peary and one of the Eskimo dogs on board the Roosevelt.—Peary's ship fast in jce packs in the polar region.—Almost superhuman difficulties overcome by Peary in reaching the Pole.—Halted by drifted iee.—How Peary stored provisions in his caches along his route.—Sight which brot joy to the heart of the Polar explorers.—The sun rises always on Feb. 19, after six months of night traveling under difficulties by Peary and Cook.—Peary's Bakimos.—Difficult camp in the arctic.—Steamer Roosevelt banked with snow.—Steamer Roosevelt after a hunt.—Showing animals willed on a hunting trip.—Steamer Roosevelt in the ice.—Dr. Frederick A. Cook in arctic dress.—The Steamer Bradley in ice.—Steamer Roosevelt banked with snow.—Steamer Roosevelt after a hunt.—Showing how the Eskimo dogs carried his food and other supplies.—Forging northward by sledges.—An Eskimo man, in the pole.—Dr. Cook s

the Stars and Stripes.

To Get Them Free Michigan Farmer expires, send us 75 cents for one year, \$1.50 for three years, or \$2.00 for five years, and we will send you the complete set of 50 cards at once, postpaid, and extend your subscription from the time now paid to. If in sending your own order you will also get some friend who is not now taking the Farmer to order with you for a year or more we will send the cards to him, and an extra set to you for sending the order to us.

Better take advantage of this offer at once, as the demand for these cards is so great that the manufacturers will not make us any promises for prompt delivery after the first lot, which we have just received. Cook and Peary cards are Premium No. 190 and can be ordered in place of any Class A premium.

THE MICHIGAN FARMER, Detroit, Mich.



NORTH POLE

Dr. Frederick A. Cook :: Com. R. E. Peary, U. S. N. together with hiographies of the emplored and a birth latery of Aretic disorred

ERNEST INGERSOL

NEW MAPS ILLUSTRATIONS FROM PHOTOCRAPHS An Authentic Account of the

# Cook and Peary **Expeditions**

Dr. Frederick A. Cook & Com. R. E. Peary, U. S. N.

Together with Biographies of the explorers and a brief history of Arctic Discovery

ERNEST INGERSOLL.

Fully Illustrated New Maps in Colors

This interesting and valuable book will be sent free (post paid) with the Michigan Farmer one year at 75 cents; three years at \$1.50, or five years at \$2.00. With a three or five-year subscription we will also include a set of 50 Post Cards of the two expeditions. The book is Premium Number 192. The post cards are Premium Number 190. Be sure to mention premium wanted. If preferred we will send the post cards with a year's subscription instead of the book.

THE MICHIGAN FARMER, Detroit, Mich. Agents' Notice.—Both premiums are Class A.

# OUR HANDSOME 1910 ART CALENDER



# The Season's Calendar Hit.

A very beautiful lithographic reproduction in 11 colors and gold after the original oil painting by the celebrated domestic animal painter, E. Johnson King of New York.

# "Between Two Fires"

represents three cages, the center one containing a family of white mice endeavoring to escape to the outer world thru the glass front; all unconscious of the danger which awaits them from the puppies and kittens above and below, should they succeed. Both the puppies and the kittens show their anxiety to become more closely acquainted with their neighbors

#### FOLDING PANEL DESIGN Size 11 x 23 Inches.

We have just received a large edition of these beautiful calendars, and as long as the supply lasts will send one free (post paid) with each sub-scription to the Michigan Farmer at 75 cents for one year; \$1.50 for three years, or \$2.00 for five years. Request must be made when order is sent.

Send your order at once to make sure of getting one. Be sure to men-tion Premium Number 193.

Agents' Notice.—The Calendar is a Class A premium. t is not given away in addition to other premiums. It is an expensive piece of work and well up in value with other Class A pre-

THE MICHIGAN FARMER, Detroit.

# Shaving a Pleasure With This Razor



The razor received all O. K. I am very much pleased with it. I think it is equal to one my brother-in-law paid \$1.50 for.—Wm. A. Bevins.

# A HENCKEL'S RAZOR.



People who know what a good razor is know that the J. A. Henckel's razor is the best made. There was never a Henckel's razor sold for less than \$2.00 and often they sell for \$3.00. By buying 1,000 of them we got them so that we can sell them to our subscribers for \$1.50 each.

J. A. Henckel's works was established in 1731. They have gained a great reputation all' over the world. You can rest assured that there is nothing finer made than the Henckel's razor. At the St. Louis Exposition in 1904 the Henckel razors were awarded the highest diplomas for excellence of goods in quality and workmanship. We absolutely guarantee these razors in every way, and those of our subscribers who wish a nice, smooth shave can have it and at a price that is less than they can buy the same thing for elsewhere. Address

THE MICHIGAN FARMER, DETROIT, MICH.

# HANDSOME LACE SCARF. THE IMP







#### This cut shows one end of the Scarf Exact size of Scarf is 152 inches by 46 inches.

Exact size of Scarf is 15½ inches by 46 inches.

One of these scarfs will be sent free, postage paid, with a one-year subscription at 75 cents, a three-year subscription at \$1.50 or a five-year subscription for \$2.00. Cash price 50 cents. It is a Class A premium.

The following are samples of many letters we have received:

"Your handsome lace scarf received. Will say it is all you claim for it. It is a beauty. Accept thanks. From your friend and well wisher."—John C. Cady, Mt. Clemens, Mich.

"The lace scarf came today and is very nice. Many thanks."—Wilson Bros., Tecumseh, Mich. Address all orders to THE MICHIGAN FARMER, Detroit.

# Concrete Construction



book is fully illustrated and is inthinking of building anything with cement. Contains fuil instructions how to build silos, walks, floors, bridges, cis tern, all kinds of outhouses, hog and poultry houses, etc

on the Farm.

paid.

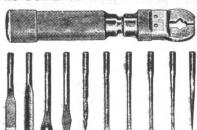
# Do Your Own Soldering With a **Gasoline Blow Torch**

Not a toy, but a practical torch of small size, which will do as much work as a large one. For any purpose where cheap, clean, and intense heat is desired either in hand work or bench. Perfectly safe and cannot get out of order. All brass and nickle plated. Starts with a match, has no pump or valve, is entirely automatic and burns with a perfect Bunsen flame of over 2,000 degrees Fahrenhelt, for two hours on one filling. FREE for four subscriptions to Michigan Farmer for one year. Michigan Farmer for one year, and blow torch, \$1.75, and any Class A Premium. Postage paid.

MICHIGAN FARMER,

Detroit, Michigan.

# The Combination Tool You Need



It is so handy every man, boy and nousewife wants one when they see this convenient, light and strong combination

tool.

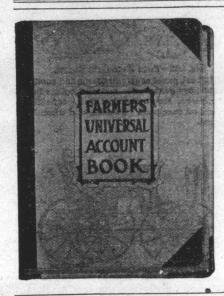
Handle and pin vise made from solid bar steel body. Sleeve knurled so will not slip in the hand. Consists of set of ten ofl-tempered well finished, forged steel tools adapted for mechanics' use. Indispensable in the household or on carpenter's bench.

Chisel, gouge, screw driver, gimlet scratch and brad awls, etc., held in the cap screw handle. Sent free for a club of three subscriptions to the Michigan Farmer either one year at 75 cents, three years at \$1.50, or five years at \$2.00. They will count the same if in combination with other papers. The subscribers will illustrated and is in-waluable to persons thinking of building Cash price 90 cents delivered.

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THE MICHIGAN FARMER,

Detroit, Michigan.

# LOOK AT THE

You see what will make a Safety Razor out of your own unsafe razor with the little de-vice you cannot cut yourself while shaving. (11) and it only 30C.

There are other kinds similar but not as good. This safety appliance fits any kind or size razor. It is made on a scientific plan. It is all right for what it is for, a safety guard, easily put on and off and cleaned, and we sell it for only 30 cents, (regular price 50 cents,) postage paid, or will send one with one of our imported German razors both for \$1.00, postage paid, or will send one free by main with one-year subscription at 75c, or a three-year subscription at \$1.50, or a five-year subscription at \$2.00. It is a Class A premium.



It Randers Honing Forever Needless.

It will take a dull razor and make it even better than when new. Two of the editors of this paper are using one and they each paid \$3.50 for theirs. They that that our readers ought to know about them, so we arranged to buy them in quantities and offer them to those of our subscribers who want them. We are not allowed to sell them for less than the regular price, \$3.50, but we are allowed to throw in a year's subscription to the paper with every sharpener and will pay delivery charges.

They are simple, practical and a comfort to the person who shaves. They will sharpen any kind of razor, the safety included. Don't get this MARVEL SHARPENER confused with the cheaper kinds on the market.

Full directions with each. The price may seem high, but remember you have an article that will home a dull razor and keep it in perfect shaving order for life. There is no possibility of cutting the strop. A child can operate it. Present subscribers may have their term advanced one year or the paper, may be sent to another address, or if you prefer, we will, in place of the paper, send FREE ONE OF OUR 75 CENT GERMAN IMPORTED RAZORS—none better. You may never know what a good shave is until you use one of these marvel sharpeners. They are in no way complicated. You simply slip the razor in, give the strop 10 to 20 pulls, and your razor is in perfect condition

THE MICHIGAN FARMER, Detroit, Mich.



No. 149-New Autostyle Buggy. No. 149—New Autostyle Buggy.
Twin Auto-Belgian type seat with large, round corners and beautiful curves. Handsome, stylish, comfortable. All wrought gear and best second growth hickory gear woods. Axles arch, high arch or very high arch as desired. Soft, easy-riding springs, oil tempered. 2,500-mile, long distance dust-proof axles. Our Agrade select hickory wheels and high bend select white hickory shafts with 36-inch, leather tips. Latest auto design top with "automobile" leather. Painting and trimming optional.



No. 60—Two-in-One Auto Seat Buggy.

The quick shift top can be detached in 30 seconds, leaving handsome and stylish runabout. Great buggy for liveries and for use where it is impossible to keep both a top and an open buggy. Best second growth frame and hardwood bottom boards will give unlimited service.



No. 329-The New Yorker. No. 329—The New Yorker.
Entire job is constructed of best and most expensive material obtainable. High, square arch axles; special hand forged wrought steel braces; special stop circle; oil tempered open head springs, rubber, with brass bearing; 1½ inch Kelly Springfield tires; hand sewed, hair stuffed cushions; thick velvet padded carpet; grain leather dash.



No. 40-Pony Runabout. Bullt to fit ponies of any size. Full wrought gear and best hardwood frame construction. Banded wood hub wheels. Heavy broadcloth, whipcord or leather trimming. Painting optional.



No. 2771/2-Pony Phaeton. No. 277%—Pony Phaeton.

Body constructed of finest imported German reed woven on hand forged wrought iron frame. Stylish, handsome, durable, and like the rest of our pony work, a job in which grown-ups as well as children can ride with comfort.





inside and out. New style seat; double framed with mortised spindles. Forged mountings. Best easy-riding springs.

# Buggy Buyers, on't Be Deceived!

When a price is quoted you on a buggy from the factory direct, remember—the freight is seldom included.

Often the freight alone makes the difference between a low price and a high price.

When you buy a Reliable Michigan Buggy of your local vehicle merchant, you have no freight to pay.

Quality for quality, the reliable Michigan dealer in your home town can quote you just as low prices as anybody can by mail.

And your local merchant-a man whom you know- a business man of standing in your own community—is always there to make good any statement he makes concerning our reliable Michigan vehicle—or that you read in our advertisements.

You have a claim on us not only for 30 days or a year, but at any time after you buy the vehicle, if it develops a defect in workmanship or material.

You do not buy a vehicle "sight unseen" when you buy of your local Reliable Michigan merchant. Go to his salesroom and examine on his floor the splendid types of

# The Reliable Michigan Line of Buggies and Pleasure Vehicles

You can see for yourself the fashionable styles—right down to the minute—the perfect finish that distinguishes the Reliable Michigan vehicle. You can see the exclusive points of construction that make the Reliable Michigan the most durable in the world by the actual test of time.

# 256 Styles to Choose From

We make 256 styles of buggles and pleasure vehicles—every approved type and scores of our own exclusive design. So well equipped is our big factory to turn out special patterns that we can easily furnish you, through your dealer, a vehicle built to your own order.

your dealer, a venicle base order.

Every Reliable Michigan dealer has our big new catalog, filled from cover to cover with illustrations from photographs, with descriptions of our entire line—256 models to choose from.

Your dealer can obtain any one of these vehicles in the quickest possible time. The Michigan Buggy Company has established a record for quick shimments.

### Leaders for 26 years

The Reliable Michigan vehicles have

The Reliable Michigan vehicles have been leaders for 26 years.
We make 35,000 vehicles a year—more exclusively pleasure vehicles than any other firm in the world. Why is this? It is because Reliable Michigan vehicles have stood the test for more than a quarter of a century. There are Reliable Michigan Buggies of the first year's output in actual use today—some in daily use in liveries that were sold over 15 years ago.

After it is air dried we always kiln dry it to avoid any possible chance of shrinkage.

Although vehicles are finished in our

Although vehicles are finished in our big factory on an average of one every five minutes, it is three years from tree to finished vehicle—so therough are our methods.

We build every vehicle, from the ground up, in our own shops. Many of our best workmen have been with us more than 25 years.

#### We Set Our Tires "The Good Old-Fashioned Way

Every tire is fitted to its own wheel, welded by a ponderous machine, built especially for the purpose, heated by a specially constructed oven, whereby the tire is made to revolve, insuring even heating and even contraction. By this method, and no other, can good results be obtained—no "Cold Tire Setting." We turn out over 100,000 wheels every year—yet we received not one tire complaint last year.

In Reliable Michigan vehicles so closely are iron and wood glued and screwed that it is impossible for water to get between, no matter how much washing is done.

# Painting Takes 100 Days

We make 35,000 vehicles a year—more exclusively pleasure vehicles than any other firm in the world. Why is this? It is because Reliable Michigan vehicles have stood the test for more than a quarter of a century. There are Reliable Michigan Buggies of the first year's output in actual use today—some in daily use in liveries that were sold over 15 years ago.

We Mill Our Own Lumber

We buy our lumber as it stands in the trees and mill it in the forest—hickory—poplar—maple—ash—every stick of timber we use. The selection is made by a master lumberman, who accepts only the high-grade goods used in the Michigan line.

Our lumber is air seasoned, under cover, profected from the weather, from 12 to 20 months before using.

# No. 151-Special Belgian Auto Seat Buggy.

No. 367-Belgian Auto Seat Surrey.

shafts. Painting as desired.

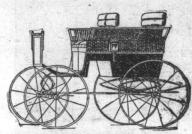
Auto top with brass nuts, knobs and front moulding. Best heavy broadcloth or M. B. leather trimming. Select hickory gear, wheels and

This is just like the No. 149 New Autostyle buggy shown above except that it has straight instead of divided back. "Auto 'top, full wrought gear. Finish-the best.



No. 362-Twin Auto Seat Buggy.

Solid bent panel seat, extra large and roomy. Best hickory gear woods, and all forgings best Norway iron. New arch axles. Soft, easy-riding springs, oil tempered. Painting and trimming optional.



No. 269-Pony Trap.

The handsomest pony trap ever built. Hardwood body with panels built of finest German imported reed. Can be used either all facing front or dos-a-dos. We build this trap to fit ponies of all sizes from 43 to 55 inches.



### Who Wants Bonnie Boy?

This shows one of the ponies from our herd of over 200 of the finest Shetlands in the country. The cart is the best style built for children's use -the Governess Cart. It is stylish and easy riding. Almost any number of children can pile into one of them and ride with comfort. You can't tip one over. Painting and trimming



50 Office Building

Kalamazoo, Mich.

The Holdfast Storm and Stable Blankets are manufactured by us. The same assurance of (16) quality goes with these blankets as with the Reliable Michigan Vehicles.

No. 20—Speed Sleigh.
A sample of our line of 40 business and pleasure sleighs. We use in their manufacture strictly air-seasoned and bone-dry lumber, single-bly panels and dashes. Our gears are heavily ironed and braced and nothing but Norway iron bolts and rivets are used. Our cushions and backs are padded with curled hair or cotton, not excelsior, and are trimmed in velour, plush or broadcloth. Each cutter is subjected to a most careful inspection at all stages of its construction.



No. 252—Dog or Goat Cart.
28-inch wheels, half oval tires: shaved spokes, bent white sax shafts and bars botted and riveted to gether with wrought iron braces. Single plate special steel spring. All iron work XO plated panel seet. Finished in natural wood, or vermillion.

