

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



TECTED MARKET, WE MUST SUPPLY OUR NEEDS.

11149

### MAKING PREPARATIONS FOR THE ing good shelter and oiling and painting connection with their corn feed, for corn land is selling at a fictitious value com-WINTER.

when we are preparing for win- of our farms. ter. Mother earth provides for her chilgiven us fruits worthy of Eden, rich and precious grains and fragrant and palatable herbs and vegetables. Her robes prepare for winter.

expressing our faith in God's testimony that He rewards them that diligently work with Him. He who has faith in the coming of the seasons and prepares abundantly for his family, his herds and his flocks, believes in nature. Believes

other good things diligently helped gather the rewards of our labor.

things needed to support life and add to its comforts and pleasures. Today it gives nuggets which we shall mint into and the shocks not yet frozen to the and of all the country that I ever saw, winter has given way to commercialism, and early spring when all of these con-there are more happy homes, more heal-The artificial has succeeded the real. The ditions are the opposite. The advantages thy and satisfied people, and, taking one fine old farms that gave our grandfathers of doing the work of hauling and storing year with another, more, or as much, money getting is in evidence on all sides. Many times we wonder if these changes important things to do in preparation for are all for the better, but what's the winter on the stock farm. the aphorism, "Whatever is, is right." change for money and labor has made a great change in our ways of farming and in many circumstances, more than balliving. Today it is an industry that must ance the expense of shredding.

The first the be managed on principles of strict business economy.

### Look Well to Home Comforts.

The first consideration in preparing for winter is to keep warm and comfortable. Stoves and chimneys need overhauling to put them in good working order for pipes should be cleaned and the stoves set up so that they will give the most the stoves and chimneys in good shape the quantity of wood required to heat the house will be greatly reduced. By providing the right kind of stoves and plenty of fuel it is possible to remove some of the disagreeable features of spending the winter in a cold climate. On very many farms coal is now used for heating and equal care must be exercised in arranging the heater as is the case with a wood Storm doors and double windows save fuel and help to preserve health and comfort.

Next we should provide for the comfort and health of the helpless creatures which an all-wise Providence has placed under our care. The few hours spent in repairing loose stable doors, windows and of hay and grain. A little forethought grown at home. The dark two controls which is 35 to 40 miles from the ers and his laborers, and co-operating and careful planning will make old sta- do her best on timothy hay and corn, Rapids which is 35 to 40 miles from the ers and his laborers, and co-operating the stock during the but needs feeds like gluten, oil meal, lake shore are to be found some of the with all who are in any way connecting bles comfortable for the stock forming the old stable into a comfortable place for the stock to spend the To get milk we must feed protein, and bit particular in selecting a location natural healthy individualism, but it winter. Horses, cattle, sheep and swine unless we can plan our feeding so that where we have plenty of air drainage. needs to have called out the social inprovided with protection from the cold, had better sell the cows. stormy weather.

hundred take no care at all. By provid- clover and other proteinaceous feeds in they are worth. In Illinois and Iowa the

Each year she gives fresh products for winter is a problem of sufficient into stand between us and starvation until terest to require a number of special thing considered, I think it will pay It is hard to tell why this should be, unharvest time shall come again. She has articles; however, a few phases of the every farmer to make a study of this less it is that Michigan farmers are so here. Thin skinned vegetables such as potatoes, keep best when stored in a of golden red and white are put on-a dark and cool cellar. Light is detrisort of warning that her children may mental to the keeping qualities of such vegetables. Apples, winter pears and WANTS TO LOCATE IN MICHIGAN. In preparing for winter we are simply grapes keep best when put in barrels or boxes, after being carefully sorted and wrapped in fine paper. Squashes keep one daughter at home, the latter being best if stored in a dry place where there is not danger of freezing. Celery for winter use may be stored in boxes eight inches wide and 20 inches deep, placed inches wide and 20 inches deep, placed

to shred corn fodder, but it pays when The sentiment that years ago ground it is possible to haul the shock give me Michigan. shredding of the stalks one of the most any other section of our country.

ing every farmer should take an inven- Those orange people down there undertory of his stock and his supply of home- stood thoroughly that the winds blow grown feeds, so that he may make defi- across the cold waters of Lake Michigan nite plans for getting his animals through in the spring and retard the bud developthe winter in the best shape. He needs ment of fruit sufficiently so that they to consider the age, size, value and con- are kept back until permanent warm If wood is the fuel used for dition of his animals as well as the kinds weather comes and consequently are not cooking and heating, the chimneys and and quality of his roughage and grain liable to be injured by extremes of temfeeds. By taking a day's time and study- perature as they are in a great many ing the whole problem, he may know ap- parts of the country. This advantage heat with a minimum of fuel. By having proximately how much corn fodder, straw certainly makes Michigan a very desirthe stoves and chimneys in good shape and other roughage he can profitably able and very reliable location for one utilize, and how much purchased grain who wants to make fruit a specialty. will be required to carry his stock All over western Michigan splendid fruit through the winter to next year's pas- locations can be purchased; of course, tures. In looking over the stock and some of these are pretty high-priced but the expert, for it would be folly for him carefully consulting their individual rec- they are worth it. Men have put their to begin experimenting with a view to ords, and carefully considering the price lives into developing a fruit farm and of the various feeds, he will many times then cannot be expected to dispose of find it more profitable to sell the poorer these, which are bringing them in good the man of sciences. He is in actual

will depend upon how we use the home- in Michigan he must expect to pay for solidarity in balance the winter feed of our stock. In haps a little farther in the interior of tural production and distribution as highfeeding dairy cows we can frequently the state a very satisfactory location can ly organized as possible. save a lot of money by selling timothy be secured at a reasonable price. They, hay and buying clover hay, or wheat however, are not developed. Then, too, than others, and the progressive farmer bran and other grain feeds to make up one doesn't have to confine himself to a must be essentially a socially minded openings will save many dollars' worth the deficiency of protein in the feeds thin strip along Lake Michigan for fruit man. He must look to working with and, of hay and grain. A little forethought grown at home. The dairy cow cannot locations. Within the vicinity of Grand where he can, helping his brother farmwinter. A few boards, a little straw and cottonseed meal, bran, and other protein most profitable fruit locations in the with land. Farming only succeeds in a ambition will do wonders toward trans- feeds in connection with her corn and entire state. We can go farther inland countryside when all the farmers are hay, if she gives good results at the pail. even to the very center by being a little moving together. Farm life has its own keep in good condition with less food if the cows have a sufficiency of protein we

Business sagacity should prompt every kinds of food as milch cows. Their Michigan produces more white beans lems; second, he is a man who looks at farmer to provide plenty of space to store growth and development requires protein than any other state in the United how others are facing their problems, his farm equipment. The needless waste to keep them strong and in a vigorous States. Michigan is second in the pro- and studies their ways and methods; as well as the depreciation in value of condition through the winter, and enable duction of sugar beets; and you can third, he is a man who experiments, who, his tools and machinery is one of the them to go out to pasture and develop raise just as good and just as big corn, after studying a question, steps out on greatest leaks in modern farming. One as they should the next summer. Cattle wheat, oats, or barley, just as nice al- lines of his own; and, fourth, he is a of the largest bills farmers have to meet that are being fattened must have fat- falfa or clover, and in fact, you can man who recognizes that he must work today is for farm implements and where ening foods, such as corn; but, even with raise any of those crops which make for with and help his neighbor in his busione farmer takes anything like good fattening cattle, better economical re-profitable and successful agriculture. ness if he is to succeed in his business one farmer takes anything like good fattering cattle, better tendential and successful agriculture. ness if care of his tools and machinery, one sults will be obtained by feeding alfalfa, Michigan lands nowhere sell for what himself.

farm tools and machinery when it is put alone is so deficient in protein that there pared to Michigan land. Their lands away in the fall a great deal of money is danger of injuring the health of the may be worth it—I presume they are—
There is no other such time on the can be saved in the operating expenses animal before it is in condition to mar- but if they are, Michigan lands are worth The storing of fruits and vegetables hogs, and the period of the corn and stances for half the price of some dewater diet should be very short. Everysubject may be profitably considered feeding question in preparation for his winter's feeding operations before winter sets in. New York.

W. MILTON KELLY.

his flocks, believes in nature. Believes in God. Faith is the key that unlocks food. Faith is the key that unlocks food's storehouse and brings all of the supplies out of the fullness of the earth. The plants can be dug that a large ball of dirt adhering to the supplies out of the fullness of the earth. The life of a farmer has better guarantees than the crown of kings.

Years ago farmers laid in bountful stores of food for winter. Many of us, and watered. If rats infest the cellar the boxes should be set deep so that they stores of food for winter. Many of us, back with more than passing pleasure on those days of preparation for the winter—days spent with grandfathers or fathers attended to visions of apple dumplings, pumpkin pies, steaming corn bread and of the cellar. The plants can be dug to inches deep, placed of age. Then I came west, where I have been in the newspaper business for many years, having sold out about one year of the twint a large ball of dirt adhering to the with a large ball of dirt adhering to the supplies out of the fullness of the earth. The plants can be dug to the cellar. The plants can be dug to the cellar. The plants can be dug of age. Then I came west, where I have been in the newspaper business for many years, having sold out about one year and watered. If rats infest the cellar the boxe, looked driving and watered. If rats infest the cellar the boxes should be set deep so that they much interested in farming and stock-ration and lessen visions of profit, look be set deep so that they much interested in farming and stock-ration and lessen visions of profit, look getter as possible.

The partial failure of the hay crop makes it necessary that many farmers make the best of every ton of roughage.

Making hay from corn stalks is one solved to the problem. The practice of we counted our blessings and with hearts at the Montana Agricultural College. In rigated land here, as elsewhere, is very will and the full thanks the best of every ton of roughage.

Making hay from corn stalks is one

Perhaps it would not be possible for hay is scarce and high. The gain in me to answer a question like this with-

The fruit belt of Michigan is known human race for food products in ex- the stable. The value of the bedding and seemed to understand it even better not with the low price. the increased value of the manure may, than I did, at least they had read and

> But Michigan is not alone noted for its stincts of the true individual as well. fruit. You can raise almost anything Young cattle require about the same successfully and profitably in Michigan. who studies and analyses his own prob-

ket. The same rule applies to feeding the same, and yet they sell in many insirable locations in some other states. well satisfied with their locations that they are not trying to change. But certain it is, the real value of Michigan real estate is not being realized if we are warranted in making comparisons with real estate in other states. To my mind there is no better place in this or any other country for a middle-aged man or his sons to locate with the idea of mak-. ing it a permanent home.

COLON C. LILLIE.

### THE PROGRESSIVE FARMER.

What does the progressive farmer need to be? First of all, he needs to be a man with an outlook. It is not enough for the farmer to have the best technical skill, to be able to take advantage of the information he can get with regard to the actual production of his crops; he must have besides, the power of thinking in a more comprehensive manner of the problems of his industry. He must not only know how to produce, but he must have the judgment to produce what is most profitable; he must be able to watch the changing conditions that affect his business, and to move with these changes. It is prices, in the long run, which compel the farmer to move in one line or They sum up his situation; another. Yesterday the fertile soil gave us the feeding value makes it a profitable policy. out being prejudiced in favor of Michi- they are the practical result which means In November and December when the gan. I have visited a great many states, to him gain or loss. Of course, a man days are warm and fair, the fields solid although not the far west or northwest, has to consider what a crop gives in other ways, such as food for himself and Taking everything his stock, as well as in the way of money surrounded the work of preparing for corn much faster than in the late winter into consideration I honestly believe that prices, and that is a truth which cannot be too often repeated, either. Slowly but surely the changes in prices, however they are caused, work out the changes and fathers the necessities of life have at one time, the gain in feeding value real profit made in agricultural pursuits in employment of the land, and we must passed into other hands. The spirit of and the convenience in feeding makes the in the state of Michigan than in almost study these mastering forces in order to use them.

Let me dwell a little further on this Aside from the world over. It was a great surprise question of specializing on the high-class use? No more specious philosophy was all these considerations the refuse from to me when I was down in Florida one product. Producing the finished articless ever enunciated than that embodied in feeding the corn hay is the best kind of time, and people with whom I had busi- the business of the progressive nation. the business of the progressive nation. bedding for stock of all kinds. Nothing ness learned that I was from western It is quality that will pay, and for her it Its grain of eternal truth lies in the fact excels it in the ability to keep stock dry Michigan, to know that they understood is quality alone that will pay—the comthat those things proved in the test of and clean. It is the best absorbent of all about the natural advantages of west-petition with the dear article, not with time usually endure. The demand of the the liquids in the manure we can use in ern Michigan as a fruit location. They the cheap article, with the high quality,

One of the features in the commercial In making preparations for winter feed- that I paid no particular attention to it. make throughout of accounts, of careful statistical records, showing the cost of each independent branch of the work. They realize that some of the best business time is in making careful records of cost, and from time to time comparing these, and contracting and developing things on the basis of figure returns

The progressive farmer must study and work in this way. He must get all the knowledge he can from the scientific expert, and then he must become an experimenter and an investigator himselfa collaborator, in fact, with the scientific expert. But let me be clear. He must first get all the knowledge he can from discovering what was already fully ascertained. The farmer is a colleague of animals and feed more to the better ones. returns, for ordinary prices. Hence, if touch with broad, living scientific inter-Very much of the profit for the year one gets a fruit location very far south ests. To be progressive we must have our farming-a strongly grown grain and roughage, and how we development, but farther north and per- developed mutual interest—our agricul-Farming is less of a selfish industry

The progressive farmer is, first, a man

Canada.

W. R. GILBERT.

### PLANNING THE FARM WORK.

doing it, but the oversight of the carryersight of this.

Then the work must be laid out so that there is always something appropriate to the man and the weather on hand. Those who have had considerable help will know that some are much better suited to certain kinds of work than others: for example, some men are good at hand work but not with a team; some are good with a hoe, while others would not earn wages with one; some are good huskers, others are not, etc. To get the most out of help one should strive to keep them at work for which they are adapted as much as possible.

As the amount of help increases the question of supervision also arises. The farmer can supervise the work of one or two men fairly well and put in considerable time in the field himself, but as the number increases he will find that much of his time is required in planning the work, in keeping everything in readiness to carry it out, and in attending to the business end of the farm. He can not do this work to advantage if he is physically exhausted most of the time from routine work, and instead of trying to probably more profitable. do a man's work in the field and look after the planning, repairing, and business end also, if he will let most of the field work alone and attend to the super- er to stay on his farm year in and year you will find you had as soon part with vision and business part, the work will out, never getting anywhere except to your other plows as with this one; it will be likely to move better and with less friction.

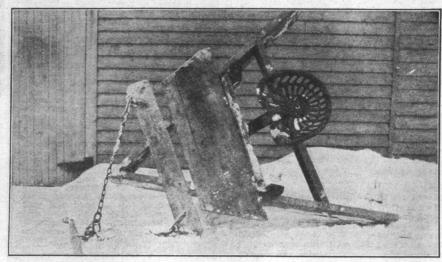
the presence of the "boss," but if a good class of help is secured, and they are used well, they will generally do fully as well when left more to their own judgif they are not required to rely upon given his choice of methods for accompharder to attain them than if following added interest and inspiration. a method laid out by another which he is inclined to believe is not as good as his own, and if he finds that his own MAKE A SNOWPLOW THIS WINTER. regarding the advantages of running a way is at fault through trial, he will be likely to put in his best efforts to redeem

operations.

cult. If the farmer is working alone it ter, especially if his operations have conplans and do the work as he desires. One his time to careful planning of the farm feet and perhaps from sickness. assistant does not complicate the situa- work; thorough supervision, care and attion so much either, but when the num- tention to the tools and equipment; some 2-inch plank, 13 inches wide and six feet ber increases to several it is found that time and thought to the study of mar-long, with a spread of five feet. As I someone must devote considerable time keting the produce and some to judicious helped to build this one I will give a to looking after the details-keeping the buying; such attention to farm accounts few suggestions: Put an iron rod, as a tools in condition and in place, and see- as will tell what crops or fields or kinds ing that tools and material are always in of treatment yield a profit or a loss, and is a good deal of strain on the plow when readiness when it is desired to begin a a study of these accounts with a view to the drifts are packed in by a hard wind. With so many using tools they do improving the profit side of the ledger. Use two-inch irons on the bottom to not always get the best of care, and, of If the large farmer will devote a consid- take the wear. The seat, taken from an course, they will wear out and need re- erable portion of his time to this work, old mower, is bolted to a board that fits pair. Someone must keep a general ov- and the small farmer will devote a part into cleats on the inside of the plow; the

of help is more necessary for most farm chicken coop and the barn; think how Where specialties, such as the chickens themselves would thank you The planning and carrying out of the fruit, trucking, sugar beets, etc., are fol- when they found a place where they farm work becomes more of a problem lowed on a large scale, it may be prac- could get to the ground, and the chickas the magnitude of the work and the tical to use some less intelligent labor a-dees and blue jays will come if you amount of help increases. The general and to group them in gangs under a scatter a little chaff from the hay mow. plan may be much the same, whether competent foreman for such work as hoe- In half an hour you can make all these the work is done by one's self or whether ing, weeding, picking, and operations of paths about the home and one to the there are a half dozen men to assist in this kind. Finally, the point I wish to make clear to your next neighbor's. If three or four ing out of the plans becomes more diffi- is that it will often pay the farmer bet- farmers would plan together they could keep the road well broken to the schoolis comparatively easy to carry out his siderable magnitude, to devote more of house and save the children from wet

> The plow in the picture is made of brace, back of the board brace for there of his best time and thought to it, both seat can be lifted out when the snow is



The Completed Snowplow, Leaned against a Building to be Photographed.

tioned in this connection is the vacation will last twice as long. idea. I do not believe it pays any farmtown, or seeing how anyone except his only depend on the season which one you neighbors conduct their work. We are will have in use. Of course, this will necessitate that the all tied down rather closely, but we can help be depended upon to use much of occasionally take time enough for a short the house and barn, you might follow the their own judgment and to work without trip to visit friends or study some other example of the young man in the picpeople's methods of conducting their ture, who is making a path in the sheltbusiness. The farmer who does this will er of the hedge so "Grandma" can have find that some ideas will be gained, if a nice place to walk, or make the team he is on the lookout for them, that will do a bit of good work by cleaning a path ment in minor affairs and details than be of more value to him than the time down some near-by hill so the children lost. Besides, the change and relaxa- can have a good place to coast. themselves for anything. If a man is tion from the daily routine of duties and surroundings will do him good and he lishing results, he will be likely to work will feel like resuming his tasks with

Calhoun Co. S. B. HARTMAN.

To the farmer or the farmer's son who er. himself, and will be likely to adopt the has not made himself a snowplow before improved method next time. What I this, I say, get busy now. Build one for line engine is no longer an experiment, wish to show is, that the intelligent la- yourself. There is almost certain to be it has become a necessity to the up-toborer should not be considered a mere several months of snow this winter and

will find farming more pleasant, and light, or used when you wish to ride to weight the plow. When summer comes Another feature which should be men- put the snowplow under cover and it

When you have once used a snowplow

Beside all the necessary paths about

Montcalm Co.

### POWER AND ITS USES ON THE FARM.

A great deal has been said and written gasoline engine as a source of farm pow-This is a subject which may be elaborated upon indefinitely. The gasodate farmer who would use the cheapest available power in the many tasks to which it is adapted upon the farm.

But there is another side to the farm power question quite as important as that of power itself, and that is the addition of equipment for using that power in every possible manner profitable. Power-driven machines are quite as essential as the power to drive them in the accomplishment of many tasks at a minimum of cost, whether it be a hay press, a feed grinder, a corn husker or shredder, or such implements or tools of lesser importance as a corn-sheller, the grindstone, fanning-mill, buzz-saw, or even the churn or washing-machine, all of which can be readily equipped to be run with a gasoline engine and thus save much valuable time and hard labor in the accomplishment of routine tasks.

As a means of gaining information regarding many saving methods of this kind which may be adopted it would be a wise move, in addition to getting literature regarding the numerous types of gasoline engines, to get literature regarding the power-driven machines and farm equipment which are advertised in these columns and which will prove profitable in use upon many farms as a means of

Wayne Co.



GUARANTEED

WEARER of Clothcraft Clothes moved to a town where there was no Clothcraft store. He was offered clothes "just as good"—but his satisfaction with Clothcraft had been so great that he wrote the makers, begging them to sell him direct. He was willing to take his chance of style, fabric and fit so long as he knew he was getting Clothcraft Clothes.

Of course the makers couldn't sell him direct, as they don't do a retail business; but the incident is related to show the confidence that Clothcraft wearers have in their clothes.

That confidence rests upon more than individual judgment. It is based upon the Clothcraft guaranty, backed by dealer and maker, which assures first-class materials and workmanship, permanent shapeliness, lasting satis-faction, and absolutely pure wool

### The One Guaranteed All-Wool Line at Medium Prices: \$10 to \$25

So much quality at \$10 to \$25 is the result of Clotheraft Scientific Tailoring, which improves the quality while cutting down the cost. It is the outgrowth of sixty-one years devoted solely to making good clothes at medium prices.

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### Go to the Nearest Clothcraft Store

Be sure to see the Clothcraft Store
No. 4130, at \$18.50. Then try on other Clothcraft coats and overcoats, and see how well they fit. Notice the close-fitting collar, the shapely shoulders, and the full, smooth coat-front.

If you don't know a Clothcraft Store, write us today for the address of the nearest one. With it we'll send you the Clothcraft Style-Book for fall and winter,

### THE JOSEPH & FEISS CO.

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Manufacturers of Men's Clothes

County of Men's Clothes 623 St. Clair Avenue, N. W.



Independent phones in use. Our big factory and 15 years experience back of Ironclad Guarantee. Ask for our BIG FREE BOOK. Tells all. Write your needs today to American Electric Co., 6413 State St., Chicago.

### For Sale; Rebuilt Machinery

20 H. Reeves double engine; 20 H. Pitts; 18 H. Pt.
Huron; 18 H. Russell; 18 H. Pitts; 16 H. Pitts; 16 H. Russell; 15 H./Pt. Huron; 15 H. J. I. Case; 15 H. Rumel; 12 H. Nichols & Shepard; 17 H. Hard;
Parr gas tractor; 4-roll McCormick\*husker; 6-roll McCormick; 10-roll Plano; 14-roll Korn-King; 14/18 Geo.
Ertel full circle baling press; 17x2 full circle Southwick; and many others.
Write us for description and price.

THE BANTING TIACHINE CO.,
114-118 Superior St.

Toledo, Ohio.

WANTED AGENTS to sell Farmers' ACCOUNT BOOK. Quick Seller, Special inducements, Till Holidays. Address L. L. Syphers, Fort Wayne, Ind.



In Readiness to Clear All the Paths that Are Needed.

to use his brain as well as his hand.

machine, but should be given a chance there surely will be snow next winter and all the winters to come. Until you Farming is somewhat different from have a snowplow you cannot understand most other work in the matter of super- what a saving of hard, back-breaking vision. The help is generally scattered work it is. When the snow is light one so that a foreman can not control and horse can do the work easily. Think utilizing the cheap power of the gasoline supervise help, as in a shop or construc- what it would mean to mother and the engine in accomplishing what would othtion gang. The problem is quite differ- girls if you made a good wide path all erwise be laborious tasks. ent. For this reason an intelligent class about under the clothes lines, and to the

### THE MICHIGAN FARMER.

PREPARATIONS FOR WINTER.

Culling Out the Unprofitable Animals.

Any discussion of the special topic for November, namely, "Preparations for Winter," would be incomplete if it did not take into account the culling of the flocks and herds maintained upon the Particularly is this true in a season like the present one, when both forage and grain are relatively scarce and high in price. It is an easily demonstrated fact that many of the animals maintained upon the average farm under average conditions do not make a profitable return to their owner after paying for their keep. This is true with a great deal larger percentage of farm animals under such conditions as prevail this

Hence, it would be a wise move on the part of every owner of live stock to not only take an inventory of the amount of feed on hand and make careful calculation as to the quantity of live stock which and health. it may be made to carry through the study of the animals in order to determine which ones of them will return a profit for the feeds given them and which better be sold at a low, or even a sacrifice price, than to feed them expensive feeds throughout the winter and pocket a loss at the end of the season, even though they might bring a little more money at that time. Whether it be cattle, sheep, hogs, or even horses, this is a very wise course for the farmer to take at this season of the year, and it is a matter upon which a good deal of thought and study can be put to a very good advantage indeed.

A little close figuring, with pencil and paper to insure accuracy, and a good deal of careful study of the capacity of the individual animals will prove especially profitable at this season of the year just at the commencement of an unusually long and expensive winter feeding period, since a close culling of the flocks and herds will be more than ordinarily profitable under the conditions which prevail this year. Not only will present results be more profitable from such a culling, but the prospects of future profit will be proportionately increased, since by eliminating the weaker animals from the breeding flocks and herds, the average quality of the future generations of live Color:-Black, but skin and hair stock upon the farm cannot but be materially bettered. This is a preparation for winter which should not be long neglected.

The Water Supply.

Not alone in the culling of the stock, but as well in preparing their winter quarters, can profitable preparations for winter be conducted upon the average One of the first essentials for the well-being and comfort of live stock is the water supply, which, upon the average farm is entirely inadequate to the needs of the stock. In fact, the only adequate and sufficient supply is an auto-Skin:—Smooth and pliable supply and over the needs of the stock. In fact, the only adequate and sufficient supply is an auto-Skin:—Smooth and pliable supply is an auto-Skin:—Smooth and symmetry and symmetry. matic supply which will permit the stock to help themselves at any time they may

fountains in every alley in the sheep stable so that all of the stock maintained was able to get water at any time from an automatically regulated supply. This work was very cheaply done and has many times repaid the cost in the better results secured from the live stock. It will be found the same upon any farm lence, detailed description and scale of along with an insufficient water supply National Association of Expert Judges: upon any farm. This is a good season of the year to install it and it may well be considered one of the important details of the preparation for winter, and there are very many other little items of stable and barn equipment which might be mentioned but only the most essential will be touched upon in this article. One of Eyes:—Full, clear, prominent and exthese is stable ventilation.

Light and Ventilation. Many modern dairy barns are now be-

ing equipped with the King system of ventilation, which can be installed so cheaply that there is no exceuse for any new barn being erected without installing this very efficient ventilating system. In Neck fact, it can be installed in old barns very cheaply and to good advantage, but where this is not done some provision Jowl: should be made for light and ventilation, since most of our older stables and barns are altogether too dark and poorly ven-

This may be accomplished by windows S wnich swing in at the top or out at the bottom, in a fairly satisfactory manner, and for sheep stables it is well to have a large door located on a protected side of the stable which may be kept open, a light gate being inserted to turn the sheep, as very good ventilation can be secured in this manner, where no other

winter season, but also to make a careful in stable equipment which need attention ones will not. Those which will not had have been specifically mentioned, viz., the

### THE PERFECT HOG.

Would you please explain through the columns of your paper what constitutes an ideal type of O. I. C. hog; also of the Berkshire and Poland China breeds. Clinton Co. A. H. B.

We do not grow perfect hogs. Such animals exist only in the imagination of men. The different breeding associations adopt standards of excellence and the publication of these standards will furnish the best reply to the query of our correspondent.

standard of excellence, description and scale of points, for judging swine were first formulated in 1875, at Springfield, Ill., by the American Berkshire Association, for the Berkshire breed, and they are as follows:

casionally showing tinge of bronze or copper color, with white on face, feet, tip of tail and occasional splash Face and Snout:—The latter short, broad and meaty the broad and meaty, the former fine, well dished and broad between the eyes -Very clear, rather large, dark hazel or gray .....ars:—Sometimes almost erect, but generally inclined forward, medium size Jowl:-Full and heavy, running well Shoulder:—Smooth and even on top and in line with side, thick through the in line chest ..... rek:—Broad,

to help themselves at any time they may feel inclined to drink. Nor need such an equipment in the stable be expensive. It can be cheaply installed with little expert labor and one season's use will more than repay for its entire cost.

For many years, in his early agricultural experience, the writer carried water from a centrally located tank to small lots of stock in different parts of the barn, with the result, which will usually be found in such cases, that the supply was more or less intermittent. Later a cheap system was installed which provided water in every stable and drinking fountains in every alley in the sheep stable so that all of the stock maintained was able to get water at any time from Style:—Attractive, spirited, indicative of thorough breeding and constitutional vigor

Following are the standard of exceland there is little excuse for getting points for Poland-Chinas, adopted by the

Head:—Even and smooth between and above the eyes. Slightly dished, tapering evenly and gradually to near end of the nose. Broad lower jaw, head inclined to shortness, but not enough to give the appearance of stubby nose. In male a masculine expression 2 pressive
Ears:—Attached to head by a short,
firm knuckle, giving free and easy
action. Standing up slightly at the

.12

white on the body not objectionable

Size:—Large for age. Condition, vigor and vitality to be considered. There should be a difference between breeding animals and those kept or fitted for show, of at least 25 per cent in size. In show condition, or when fat, a two-year-old boar should weigh not less than 600 pounds, and a sow not less than 500 pounds. Boars one year and over, 400 pounds, sows 350 pounds. Boars 18 months, 500 pounds, sows 450 pounds, sows 450 pounds. Boars and

pounds. Boars 18 months, 500 pounds, sows 450 pounds. Boars 18 months, 500 pounds, sows 450 pounds. Boars and sows six months old not less than 160 pounds. All hogs in just fair breeding condition just one-fourth less for size. The keeping and oreeding condition just onne-fourth less for size. The keeping and chance that a young hog has cuts quite a figure in his size and should be considered, other points being equal. Fine quality and size combined are desirable

Action and style:—Action vigorous, easy and graceful. Style attractive, high carriage; and in males testicles should be prominent and of about the same size, and not too large and pouchy

Condition:—Healthy:

type or model .....

A standard scale and description for "O. I. C." swine, adopted by the Ohio Improved Chester White Swine Breeders' Association, reads:

Color:—White. Black spots in hair disqualify, but blue spots in hide (freckles), while objectionable, do not argue impurity

Head and Face:—Head short and wide; cheeks neat (not too full); jaws broad and strong; forehead medium, high and wide, face short and smooth; wide between the eyes which



Has Imitators But No Competitors. Safe, Speedy and Positive Cure for Curb, Splint. Sweeny, Capped Hock, Strained Tendons, Founder, Wind Puffs, and all lameness from Spavin, Ringbone and other bony tumors. Cures all skin diseases or Parasites, Thrush, Diphtheria. Removes all Bunches from Horses or Cattle.

As a Human Remedy for Rheumatism, Sprains, Sore Throat, etc., it is invaluable. Every bottle of Caustic Balsam sold is Warranted to give satisfaction. Price \$1.50 per bottle. Sold by druggists, or sent by express, charges paid, with full directions for its use. Es Send for descriptive circulars, testimonials, etc. Address The Lawrence-Williams Co., Cleveland, O.



Has No Equal for Cure of

A injured tendons, bone spavin, curbs, splinte, Quiete, sure and sure thoroughpin, bogmoney back if Mail \$1.00 for this medy today

and other en-CHICAGO VETERINARY MEDICAL CO. 2470 Calumet Av., Chicago, III. largements.

> Hardy's Hog House "It's Portable," made of the best Corrugated Galvanized Steel with an all-steel frame. Guaranteed.

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Write for Special Introductory Price! Hardy Manufacturing Co., 303 Union St., Pendleton, Ind.

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Pioneer Percheron Breeders of
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Percheron Stallions and Mares All registered and young. Fifty head to select from

### 100 Head Belgian & Percheron Stallions and Mares.

Direct from breeding farms of Belgiun and France, all high iclass draft stock with quality and size. Among them are many European prize-winners. If you are in the market for a stallion or mare it will be to your advantage to see our horses and get our price. We will sell you a better horse for cless money than anyone else. We guarantee every horse and back up our guarantee. Don't fail to see our stock before you buy, Send for our oatalog and Government Book on the care of horses.

LOESER BROS., Box 3, Ligonier, Ind. We will be at Chicago at the Internation Horse Show with a fine display of horses.

# **DUNHAM'S**

our summer importation, in our estimation he best lot of horses we have ever had at baklawn, has arrived. Numerous imporant prize-winners are included, then the high average is the main thing, as every nimal would be a credit in any herd. Write us. DUNHAMS, Wayne, Illinois.

BELLS' DRAFT STALLIONS Percheron, Shire and **Belgian Stallions** 

At reasonable prices. Write us what you need. BELL BROS., Wooster, Ohio.

JACKS and MULES

Raise mules and get rich. 18 jack and mule farms under one management, where can be seen 580 head fine large jacks, jennets and mules. 14 to I'l hands high. Good ones. Stock guaranteed. Write for prices today. Address Krekler's Jack Farm West Elkton, Ohio



\$1.00

seen and of same size and car-

riage
Symmetry:—A fit proportion of the several parts of the body to each other, forming a harmonious combination.

UNWISE ECONOMY IN HANDLING

For several days the ground has been white with snow yet one sees cattle out in the pastures, picking for the grass which is frozen and at least partly bur-

LIVE STOCK.

NATIONAL ASSOCIATION MEETINGS TO BE HELD DURING THE INTERNATIONAL.

Monday, December 4.
Percheron Society of American, Exposition Hall, 7:30 p. m.; American Tamworth Swine Record Assn., Red Cross Hall, 8:00 p. m.

Tuesday, December 5.
International Live Stock Exposition Assn., Assembly Hall, 7:30 p. m.; American Milch Goat Record Assn., Red Cross Hall, 2:00 p. m.; American Shire Horse Assn., Exposition Hall, 7:00 p. m.; O. I. C. Swine Breeders' Assn., La Salle Hotel, 7:00 p. m.; American Shropshire Assn., Wool Growers' Hall, 7:30 p. m.; Hampshire Swine Record Assn., Association Hall, 8:00 p. m.; American Oxford-Down Record Assn., Registry Office, 8:00 p. m.; American Rambouillet Sheep Breeders' Assn., Red Cross Hall, 8:00 p. m.; American Berkshire Assn., Assembly Hall, 8:15 p. m.

Wednesday, December 6.

American Poland China Record Assn., Exposition Hall, 10:00 a. m.; Continental Dorset Club, Wool Office, 2:00 p. m.; Red Polled Cattle Club of America, Red Cross Hall, 2:00 p. m.; American Duroc-Jersey Swine Breeders' Assn., Kaiserhof Hotel, 7:00 p. m.; American Assn. of Imp. & Br. of Belgian Draft Horses, Exposition Hall, 7:30 p. m.; American Aberdeen-Angus Breeders' Assn., Grand Pacific Hotel, 8:00 p. m.; American Hampshire Sheep Assn., Wool Growers' Hall, 8:00 p. m.; American Shorthorn Assn., Grand Pacific Hotel, 8:00 p. m.; National Lincoln Sheep Breeders' Assn., Red Cross Hall, 8:00 p. m.; Thursday, December 7.

American Galloway Breeders' Assn.

p. m.

Thursday, December 7.

American Galloway Breeders' Assn.,
Galloway Office, 7:30 p. m.; American
Southdown Breeders' Assn., Wool Growers' Hall, 8:00 p. m.; Polled Durham
Breeders' Assn., Grand Pacific Hotel,
8:00 p. m.; National Assn. of Stallion
Registry Boards, Red Cross Hall, 8:00
p. m.

THE JUDGING PROGRAM.

College Department.
Saturday, Dec. 2.—Students' judging contest; judging horses, cattle, sheep and

swine.

Cattle Department.

Monday, Dec. 4.—Pure-bred and grade Bullocks; college and experiment station stock; Clay-Robinson specials.

Tuesday, Dec. 5.—Aberdeen-Angus breeding classes; Red Polled breeding classes; carloads fat cattle; "Short-Fed Special" carloads.

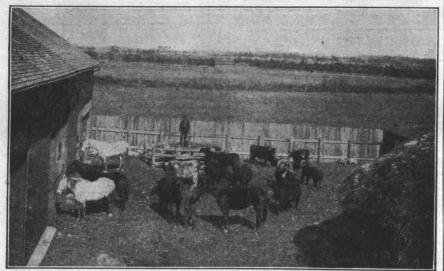
Wednesday, Dec. 6.—Shorthorn breeding classes; Aberdeen-Angus breeding classes, concluded; Hereford breeding classes.

Thursday, Dec. 7.—Hereford breeding classes; Shorthorn breeding classes, concluded; Galloway breeding classes, Friday, Dec. 8.—Polled Durham breeding classes; Galloway breeding classes, concluded concluded.

Sheep Department.

Monday, Dec. 4.—Pure-bred, grade and cross-bred wethers; college and experiment station stock; Clay-Robinson specials

Tuesday, Dec. 5.—Shropshire breeding classes; Dorset breeding classes; carloads native and range sheep.
Wednesday, Dec. 6. — Rambouillet



A Protected Yard Increases the Comfort of Stock and Saves on the Feed Bill. ied in snow, so that they must get con- breeding classes; Hampshire breeding siderable snow along with the frozen grass. To say nothing of the damage to pastures and meadows from the tramping and feeding of animals at this season—a time when the grass roots need all the protection they can get—does

Swine Department

beeding classes, Hampsnire breeding classes, Thursday, Dec. 7.—Oxford-Down breeding classes; Cotswold breeding classes; Lincoln breeding classes; Friday, Dec. 8.—Southdown breeding classes; Cheviot breeding classes; Leicester breeding classes; Cheviot breeding classes; Leicester breeding classes. son—a time when the grass roots and the protection they can get—does the stock get enough nourishment from what they pick up to offset the feed saved at the barn? I do not think so. Such stock, to my mind, would be much better off in a stable or shed, or a protected ter off in a stable or shed, or a protected yard. Animals that have spent the day yard. Animals that have spent the day because the fields eating frozen feed terms of the fields eating frozen feed terms of the stock get enough nourishment from Monday, Dec. 4.—Barrows, all classes:

Monday, Dec. 4.—Barrows, all classes:

Clay-Robinson specials.

Tuesday, Dec. 5.—Berkshire breeding classes.

Wednesday, Dec. 6.—Poland-China breeding classes; Hampshire breeding classes. in ranging the fields, eating frozen feed and becoming chilled by cold winds, will need as much or more feed at night, if they are to be kept in good flesh, than ing classes. they are to be kept in good flesh, than they would if kept out of the wind during the day. The more comfortable animals are kept during cold weather, the less food will they consume and the more profit will they bring to the owner. Do not try to save feed at the beginning of winter by allowing stock to range the fields. It doesn't pay.

APOLLOS LONG.

Horse Department.

Monday, Dec. 4.—Belgians; draft geldings to halter—singles.

Tuesday, Dec. 5.—Percherons; draft geldings in harness—threes.

Wednesday, Dec. 6.—Clydesdales; draft geldings in harness—fours.

Friday, Dec. 8.—Suffolks; Hackneys;

APOLLOS LONG. Eaton Co.

Thursday, Dec. 7.—Duroc-Jersey breeding classes; Yorkshire breeding classes.
Friday, Dec. 8.—Chester-White breed-

French coach horses.

# A FEW BIG LEAD

IN HORSE BLANKETS AND LAP ROBES

- From Our Latest and Greatest Harness Catalog "Aberdeen," Burlap Body, Fabric Lined Stable Blanket.

An extra wide blanket with two 3½-inch heavy web surcingles, long stay, bound front, snap fastening. Size, 76 inches long; deep body.

Weight, about 7

No. 10G64543<sup>1</sup>/<sub>4</sub> Price, each..\$1.75

"Don Carlos" Burlap Stable Blanket. A big special at \$1.00 is this burlap, blanket lined stable blanket, made with snap front, two surcingles and short stay. Size, 72 inches long. Weight, about 4½ pounds.

10G645261/4



### Double Plush Robes.

No. 106635534 Double Plush Robe. Fancy two horse pattern on one side, plain black on the other. Size, 50x60 inches. Weight, about 6½ pounds. Price, each.....\$4.95

No. 10G63554¼ Same as above, but with rubber interlining, storm and windproof. Weight, about 9 pounds. Price, each.....\$5.95



"Altman Striped Blankets.

Strongly made, ray bedied lankets. Fancy gray bedied blankets. Fancy color striped body.

No. 1066437214 Size, 76x76inches. Weight, about 4 pounds. Price.

No. 10G64379¼ Size, 76x80 inches. Weight, about 5 pounds. Price, each \$1.25 No. 10G64383¼ Size, 84x90 inches. Weight, about 8 pounds. Price, each \$1.75

The harness you will want for spring work. A full line of it is shown in our big, handsomely illustrated Harness Catalog, all quoted to you at manufacturers' prices, one-third less than retail.

Whether you buy our goods or not we are anxious that you should get this big book, the most complete catalog of harness, saddlery, horse blankets, plush robes, fur robes and auto robes. No guessing what our robes look like, as they are illustrated in their actual colors. Send for a copy.

Sears, Roebuck and Co., Chicago, Ill.

# TWELFTH INTERNATIONAL

December 2nd to 9th. Union Stock Yards, Chicago. The World's Greatest Live Stock Show.

The International Horse Show, embracing all that is paramount in the horse world, will be held evenings during the exposition. Thirty National Live Stock Association Conventions. Premiums over \$75,000. Entries more than 11,000 animals. Grand Carload Exhibit. Numerous new attractions.

Daily Auction Sales of Pure Bred Live Stock.

Wednesday. December 6th, 1 p. m.
50 Cholce Aberdeen-Angus.
For Catalog write Chas. Gray, Secy., U. S.
Yards, Chicago.

Yards, Chicago.

Friday, December 8th, 1 p. m.
50 High Class Herefords.
For catalog write R. J. Kinzer, Secy.,
Kansas City, Mo.

On Tuesday, December 5th, at 1 p. m.
the Rambouillet Sheep Association will hold a sale.
For further particulars write Dwight Lincoln,
Secy., Millord Center, Ohio.

Shropshire Sale—Wednesday, December 6th, 10 a. m. For further information apply to J. M. Wade, LaFayette, Indiana.

Also on Thursday, December 7th, at 1 p. m., the American Hampshire Swine Association will hold a sale. For Catalog write E. C. Stone, Secy., Peoria, Ill.

Education, Entertainment, Pleasure Trip—ALL IN ONE.

LOWEST RATES ON ALL RAIROADS.

Nelson Submerged Tank Heater



This heater is so constructed that the entire heating surface is under the water. Thousands in use in 22



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A good horse Deserves the best blanket you can buy.

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THICK, SWOLLEN GLANDS

that make a horse Wheeze, Roar, have Thick Wind or Choke-down, can be re-moved with

ABSORBINE

also any Bunch or Swelling. No blister, no hair gone, and horse kept at work. & per bottle, delivered. Book 3 E free.

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W.F.YOUNG, P.D.F., 268Temple St., Springfield, Mass.

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

Stocking.—I have a mare that stocks in both hind legs when allowed to stand in barn in open stall over night. This mare also has heaves. Would bandaging her legs help her and, if so, how tight should bandages be applied? H. B. S., Lakeview, Mich.—Stocking is not a disease but a result of other ailments, or a torpid condition of absorbent system. It may be result of weakness. Give a table-spoonful of the following compound powder at a dose in feed three times a day: Powdered sulphate iron, ground gention, ginger and nux vomica, equal parts by weight, and mix thoroughly. Bandages applied not too tight and not left on too long are helpful in these kind of cases. A horse that has heaves should be fed

weight, and mix thoroughly. Bandages applied not too tight and not left on too long are helpful in these kind of cases. A horse that has heaves should be fed no clover or musty, dusty, badly cured fodder of any kind and not allowed to eat too much bulky food.

Looseness of Bowels.—I have a three-months-old suckling colt that commenced to scour three days after it came in from pasture. Have been feeding mare good dry hay, cornstalks, timothy, with equal parts by measure of corn and oats. The second time his bowels became so loose I changed his mother's roughage to timothy hay; colt also has good timothy hay and crushed oats. Colt does not appear to be sick. G. W. G., Rapid City, Mich.—Give colt 20 grs. sub-nitrate of bismuth at a dose four times a day. I also suggest that you change colt's feed and perhaps its water supply.

Not Tuberculosis.—The cream from milk of one of my cows seems to be tough and stringy-like; for this reason I suspect this cow might have tuberculosis. She seems perfectly healthy, has good appetite and is lively. S. S., Lakeview, Mich.—Your cow shows no symptoms of tuberculosis, but if you will salt her well, change her feed and possibly your manner of keeping the cream for milk, everything will be all right.

Light Milker—Bitter Milk.—I would like to know what can be done for a four-year-old cow that is only giving one quart of milk at a mess. She seems to be healthy, is in fair condition, is fed good hay and corn fodder, besides fed 4 qts. middling a day. She was dehorned about six weeks ago, caught cold, but is now all right. She will be fresh in April, and I might add that her milk occasionally tastes bitter. B. E. T., Petoskey, Mich.—A great many cows that are pregnant seem to fall off in their milk supply four months before coming fresh. Is your cow not natraully a light milker? She is perhaps an unprofitable dairy cow.

Chronic Garget.—I have a valuable Jersey cow that very often gives thick, ropy milk. First one quarter will be af-

nant seem to fall off in their milk supply four months before coming fresh. Is your cow not natraully a light milker? She is perhaps an unprofitable dairy cow.

Chronic Garget.—I have a valuable Jersey cow that very often gives thick, ropy milk. First one quarter will be affected, then another, bag swells, is feverish, swelling soon goes down to appear shortly in another portion of bag. She will give thick milk from one teat for two or three milkings and milk supply from this quarter decreases. She came fresh some six weeks ago, is in good condition and seems in perfect health. She gave thick milk at different times last year. I would like to have your opinion regarding this cow. S. H., Ludington, Mich.—Your cow suffers from an infected udder, her ailment being of a chronic character makes the case a very difficult one to cure. Milk such as she gives is unwholesome and unfit for human food; besides, she is unprofitable for dairy purposes. To effect a cure her udder should be irrigated with antiseptic solutions and in order to do this you would require a return flow syringe; furthermore, she should be given medicine for several weeks. All things considered, she had better be dried and fatted.

Scurvy.—Young sow is troubled with scurvy. Would like to know what to do for her. She is fed cooked potatoes, pumpklns and turnips, besides giving her milk. L. F., La Salle, Mich.—Give her two-thirds of a teaspoonful of cooking soda at a dose in feed two or three times a day. Apply 1 part sub-nitrate of bismuth and 10 parts vaseline to scurvy parts twice a week.

Weak Orphan Colt.—About September 1 my mare gave birth to a colt which she refused to own. I have fed this colt cow's milk with a little sugar added, besides, she has had clover hay and oatmeal before her all the time. Some time ago she began to show weakness in both hind fetlocks, so much so that joints touched ground and her fore legs are showing same symptoms. I would like to know what can be done for her. T. H. S., Freeland, Mich.—You seem to have managed the

Loeser Bros., of Ligonier, Ind., importers of Belgian, Percheron and Shire horses, announce that their exhibit at the International Horse Show. at Chicago, Dec. 1-9, will be located in Barn 12.

# VETERINARY STALLIONS Jersey Bull Galf Berkshires Bred sows, bred gilts and boars ready propped Dec. 5, 1910. Berkshires Fred sows, bred gilts and boars ready propped Dec. 5, 1910. Berkshires Fred sows, bred gilts and boars ready prices. C. C. COREY, New Haven, Michigan.

### Percherons and Belgians

Quality, Style and Action. Good Ones, the drafty kind, at prices which defy competition. Write us for particulars

GEO.W.SOUERS&SONS,

Huntington, Indiana.

### Hides Tanned for Robes, Coats and Rugs

Send us your Cattle or Horse Hides or any skins that you may have, and we will tan these for you as they ought to be tanned. We have the larges and best plant in the country for doing thi work. We are coat and robe makers. Our price are right, work Guaranteed. Low prices. Send for circular, also catalog.

HUGH WALLACE COMPANY, DETROIT. MICHIGAN.

White Holland Turkeys! Large, hardy, healthy ning stock. T. B. & E. H. McDonagh, Burt, Mich

FOR SALE—Just what your boy wants for Christmas, 2 Shetland pony horse colts, 1 black & white and 1 black. Price \$60 each. J. A. Mitter, Stockbridge, Mich.

### BREEDERS' DIRECTORY.

CATTLE.

### ABERDEEN-ANGUS Herd, consisting of Trojan Ericas, Blackbirds and ides, only, is headed by Egerton W. a Trojan Erica, Black Woodlawn, sire of the Grand Champion steer d bull at the International in Chicago, Dec., 1910, is assisted by Undulata Blackbird Ito. WOODCOTE STOCK FARM, Ionia, Mich.

THREE choice ABERDEEN-ANGUS 2-year The OLOVER BLOSSOM FARM, Port Austin, Mich.

AYRSHIRES—One of foremost dairy breeds: young bull calves for sale. Berkshire swine. Poultry, All pure bred. Michigan School for Deaf. Flint, Mich.

GUERNSEYS—Imported cow, 5 heifer 1 bull calves, of extra breeding for sale. Come and see them. WILL W. FISHER, Watervliet, Mich.

3 Guernsey Bulls—4 years, 9 months, and 4 months quick sale. Thompson & Barnett, Sand Lake, Mich

For Sale—Two young polled Durham Bulls and five Durham Heifers and Cows. \$50 each if taken quick.

J. E. OLARK, Milford, Mich.

A fine young bull from an Advanced Registry dam. Pictertie Korndyke De Kol Prince No. 18962. Born Oct. II. 1810. Sire Willowbridge Bos. Dam, Marion Pride Pietertje De Kol. who has an official record at 2 years as follows:—Milk 1 day, 53.4 lbs.; Milk 7 days, 532. lbs.; Butter 7 days 13.73 lbs. She gave 5565 lbs. of milk in 153 days at 2 years old, at which time she was sold to a Wisconsin breeder for a high price. Her dam has an official record of milk 1 day, 90 lbs; milk 7 days, 60.3 lbs.; butter 7 days, 21.22 lbs. and gave 14992 lbs. milk in 352 days. His sire is a grandson of Beauty Pietertie who has an official record of 30.51 lbs. butter in 7 days and was the first 30-lb cow of the breed to produce a 30-lb. daughter, and traced to Belle Korndyke who is the dam of Pontiac Korndyke. He comes of large producers on both sides, is a fine individual, of good size, very light colored. Price \$100.

MOPHERSON FARMS CO., Howell, Michigan.

### MAPLE AVENUE STOCK FARM Nov. Bull Special

will tell all about **20 Bulls that are for sale.**DON'T buy a bull until you have read the NoySpecial, which is yours for the asking. Help
me to sell this lot in November by buying ONE.

L. E. CONNELL, - Fayette, Ohio.

FOR SALE

Registered bulls from four to ten months old for sale that are closely related to Hengerveld De Kol, De Kols 2nd Butter Boy 3rd, and Colanta 4th's Johanna. The dams are heavy milkers and mostly in the A. R. O. Prices reasonable. Send for list. Bigelow's Holstein Farm, Breedsville, Mich.



Holstein-Friesian, Asso., Box 164, Brattleboro, Vt

Thirteen High Grade Holstein Cows.
They are young and right in every way and heavy
millions. They tested 4% for October. Three are
fresh, the others bred to registered bull and due
soon Price \$900.00. C. C. COBEY, New Haven, Mich. HOLSTEIN BULL Calf, sired by best Butter Boy—56 daughters in Advanced Registry—out of sister to World's Champion bull Sarcastic Lad. She has official record of 224 lbs, butter in 7 days, and sire's dam a record of over 25 lbs. A bargain at \$50.

C. D. WOODBURY, Lansing, Michigan.

Holstein-Friesian Cattle—Special Prices on young bulls about ready for service.

W. B. JONES, Oak Grove, Mich.

Bull Calf for Sale—Throughbred Holstein, best breeding, four months old, Handsomest in State. Seven-eighths white, a beautyonly \$50. ROUGEMONT FARMS, Detroit, Mich.

FOR SALE-Reg. St. Lambert Jerseys, producing stock. C. A. BRISTOL, Fenton, Michigan.

REGISTERED JERSEYS For Sale—Some combin.
In ing the blood of St Louis and Chicago World's
Fair Champions by HERMAN HARMS, Reese, Mich.

### Sire, Marston's Interested Prince Has three daughters in Register of Merit with yearly records.

He is a son of Imported Interested Prince, 18 daughters in Register of Merit.

Dam is No. 773 Register of Merit 11, 115 Ibs. Milk, 511 Ibs. Butter Fat, equal to 602 lbs. Butter in one year. 56 lbs. milk in one day.

Winner in Show Ring, also Competitive Dairy Test, Michigan State Fair. For price address

T. F. MARSTON Bay City, Michigan.

For Sale, Jersey Bull Calf, born Feb. 4, 'll:
of Merit cow. Grandsire, Register of Merit bulk
WATERMAN, & WATERMAN, Ann Arbor, Mich.
(Successors to Murray-Waterman Co.)

LILLIE FARMSTEAD JERSEYS Cows all in yearly test. Four Bulls old enough for service. Several splendid Bull Calves. A few Heifers and Heifer Calves. I guarantee satisfaction money refunded.
COLON C. LILLIE, Coopersville, Michigan.

Holstein Bulls from 2 to 12 months, grand sons of Hengerveld De Rol. King Segis, King Veeman De Kol, and King of the Hengervelds— all from grand old dams. Prices very low, breeding considered, Long Beach Holstein Farm, Augusta, Mich.

FOR SALE-3 yearling Holstein-Frieslan bulls, also Fored heifers \$150 to \$200 each, Bull calves \$40 to \$90 33 years a breeder. Photos and pedigrees on appli-cation. W. C. Jackson, South Bend, Ind., 719 Rev St

BUTTER BRED JERSEY BULLS FOR SALE CRYSTAL SPRING STOCK FARM, Silver Creek, Allegan County, Michigan.

Dairy Bred Shorthorns afew bred heifers to Cash or good note. J. B. HUMMEL, Mason, Mich

### JERSEY BULLS FOR SALE

BROOKWATER FARM, ANN ARBOR, MICH., R. F. D. 7

Red Polled Bull Calves 6 to 7 months old, \$40 to \$50. Cows \$50 to \$75. Als Percheron Stallion 3 years old, fine style, a big bargain at \$250. E. BRACKETT & SON, Allegan, Mich

FOR SALE-2 Yearling RED POLLED BULLS, price \$60 each if taken now. J. M. CHASE & SONS, Ionia, Mich.

Oakdale Stock Farm—Shorthorn Cattle, Shrop-bulls for sale. W. J. LESSITER, Belding, Mich.

SHEEP.

20 Choice, young, large, heavy fleeced Delaine Rams Write wants to S. H. SANDERS, Ashtabula, Ohio.

Foundation Flock A great bargain in fock of Hampshire Down Sheep—best general purpose sheep on earth. Four registered ewes and ram for \$50. Also few young rams at \$10 to \$15 each. C. D. WOODBURY, Lansing, Michigan.

Leicesters—Yearling and ram lambs from Champion flock of Thumb of Mich. Also select Berk. shire swine. Elmhurst Stock Farm, Almont, Mich.

Oxford Down Sheep Good Yearling Field for sale, I. R. WATERBURY, Highland, Michigan.

OXFORD RAMS and EWES bred by and ewes bred to imported rams, for sale. Write B. F. Miller or G. L. Spillane, Flint, Mich.

OXFORD DOWN RAMS FOR SALE—yearling and lambs. Will sell a few aged ewes at at tractive prices. S. E. GILLETT, Ravenna, Ohio.

Special Prices on 25 RAMROULLET Breeding gistered. IRA B. BALDWIN, Hastings, Mich.

Rambouillet Rams—Good ones at farmers prices. Also ewes and ewe lambs. A. E. GREEN, Orchard Lake, Mich. Bell phone

Reg. Rambouillets Wish to both sees. All ages, low price. Farm—23 miles E. Morrice, on G. T. R. R. and M. U. R. J. Q. A. COOK.

### Oak Hill Stock Farm VON HOMEYER RAMBOUILLET RAMS at farmers' prices for the next 90 days, Large, plain heavy fleeced. C. E. LOCKWOOD, Washington, Mich.

MAPLE RIDGE SHROPSHIRES—For sale the imp. ram, The Manager, and yearling rams and ewes sired by this noted ram. H. Stewart, Lennon, Mich.

For Sale—Eight choice Shropshire Yearling Ewes cheap. JONES & MORRISH. Flushing, Michigan.

SHROPSHIRE registered ram lambs \$12 each c. J. THOMPSON, Rockford, Michigan.

Shropshire Hall Stock Farm has a few choice for sale. L. S. DUNHAM & SONS, Concord, Mich.

The Maple Shropshires—We have for sale 30 yearling rams, and our 3-year-old stock ram, bred by Davison and sired by British Yeoman.

E. F. LELAND & SON, Houte No. 9, Ann Arbor, Mich.

Shropshire Bargains: EWES and RAMS—Forty big, strong well covered yearling rams from imported sires. Satisfaction guaranteed, J. E. OTTAWAY & CO., Flushing, Mich.

Shropshire Rams for Sale.
DAN BOOHER, R. No. 1, Marion, Mich.

SHROPSHIRE yearling Rams and O. I. C. Spring Boars & Sows. One yearling Boar. Shrophire ewe lambs later. E. E. BEACH & SON, Brighton, Mich.

Shropshires at farmers' prices. Have a fine bunch of yearlings and ram lambs, also a few young breeding ewes. HARRY POTTER, Davison, Mich. Polled Delaine Rams for Sale.

FOR SALE, BERKSHIRES—2 boars & 3 gitts farsowed in June also a choice lot of Aug. and Sept. pigs, sired by Handsome Prince 3d & Marion King. A. A. PATTULLO, Deckerville, Mich.

Berkshires Buy a service Boar now, for sale. C. S. BARTLETT, Pontiac, Mich.

PURE 0. I. C's—Bred from prize-winners and large type. Both sexes, not akin, this spring farrow. Call or write. F. M. C. Schweiterman, Monteguma, O.

O. I. C. SWINE—My herd is chiefly descent of the Royal strain both males and females. Write for Live and strain both males and females. Write for Live and Let Live price on pairs and trios, not akin. A. J. GORDON, R. No. 2, Dorr, Michigan.

O. I. C's—either sex, March farrow—the large, growthy kind. Right type at farmers prices. A. NEWMAN, R. No. I, Marlette, Michigan

0. I. C. SWINE—Males weighing from 175 to 250 GEO. P. ANDREWS, Dansville, Ingham Co., Mich.

O. I. C's For Sale—Best quality, large growthy akin, some fine bred gilts, choice lot of full pigal ages. OTTO B. SCHULZE, Nashville, Michigan.

O. I. C. Boars ready for service. Best quality er's prices. CHAS. SEVERANCE, Deford, Mich.

O. I. C.'s—Boars all sold. Choice young sows weighned ing 180, also 60 Aug. & Sept. pigs, either sex, pairs no akin. Order early. Fred Nickel, Monroe, Mich., B.1. OUR Imp. Chester Whites and Tamworth swine won 226 lst at Fairs in 1911. Service boars, also sows bred for spring farrow of either breed that will please you in quality and price, Adams Bros. Litchfield, Mich.

Improved Chesters—Young breeders of March, April and May farrow, either sex. A few tried sows for sale when bred. Also Holstein cattle W. O. WILSON, Okemes, Mich. Both phones.

DUROC JERSEYS-Nothing for sale at present; CAREY U. EDMONDS, Hastings, Mich.

DUROCS—A few boars and gilts at prices to move them it sold soon. Satisfaction guaranteed. F. B. COOK, Paris, Mecosta Co., Mich.

DUROC-JERSEY BOARS of the large, heavy boned type and good in quality, also gilts and fall pig for sale. M. A. BRAY, Okemos, (Ingham Co.) Mich.

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### BIG POLAND CHINAS.

We have several spring boars that are ready for service now from our two

Large Boars Big Tom and Big Wonder. The dams of these boars we are offering were from Happy Wilkes, a 1000-lb hog and Jim Perfection an 800-lb. hog.

We also have several females. Write us your wants; we will sell them at farmers prices.

ALLEN BROS., Paw Paw, Mich.

LARGE TYPE P. C.—Largest in Michigan. Pigs sows. Weigh 160 to 1751bs, at 4 months. My metto—"Not how cheap but how good." Will penses of those who come and do not find what I advertise. W. E. LIVINGSTON, Parma, Mich.

BUTLER'S BIG TYPE POLAND-CHINAS—size, bone, big fall boars at \$25; 100 spring pigs \$10 to \$15: 50 fall pigs \$5 each; 50 registered Shrop bucks at \$10 to \$15: 6 reg. Jersey bulls at \$15 to \$25: 50 reg. Shrop ewes at \$10. We are the farmer's friend. J. C. Butler, Portland. Mich.

POLAND CHINA SPRING PIGS from large styled stock. Also dairy bred Shorthorns, both sexes, all ages, prices low. ROBERT NEVE, Pierson, Mich.

Poland Chinas—Spring and fall pigs of large and medium style, at right prices, either sex. E. D. BISHOP, Route 38, Lake Odessa, Mich.

For Sale Thoroughbred Poland China Swine.
Fairs. W. F. QUIRK, BigRapids. Michigan. POLAND CHINAS;—Home of Michigan's Grand Champion Boar; large, growthy spring boars and gilts by this great sire; they're priced right. E. J. MATHEWSON, Nottawa, Mich.

Poland Chinas—Extra good spring and fall pigs either sex L. W. BARNES & SON, Byron, Shiawassee Co., Mich.

FOR SALE—Poland China boars and sows, Holstein bulls, White Holland Turkeys, Barred Plymouth Rocks, Collie Pups. L. Birkenstock, Fall River, Wis.

P. C. BOARS ready for service, heavy boned large type, Prices right, H. H. Conrad, successor to L. F. Conrad & Son., R. No. 4, Lansing, Michigan. P. C. Boars and Fall Pigs of the right type, Also S. C. B. Minorea fowls. Northrup and Canada stock. Satistion guaranteed. R. W. MILLS, Saline, Mich.

Poland Chinas—Bred from large type. Stock all ages, both sexes, at Farmer prices. W. J. HAGELSHAW, Augusta, Michigan

Poland Chinas—Special sale on 1 yearling boar and fall pigs of R. J. LANE, Clare, Michigan. Big Type P. C. Boars and Sows sired by Expansion. A. A. WOOD & SON, Saline, Michigan.

# Three Extra Good Fall P. C. Boars

WM. WAFFLE, Coldwater, Michigan. Mulefoot Hogs Stock of all ages for sale. Price right, at Lima. G. C. KREGLOW, Ada, Hardin Co., Ohio.

PURE BRED YORKSHIRES, all ages, both sexes. Cut old enough for service, M. O. WILSON, Morley, Mich

### Lillie Farmstead Yorkshires.

Boars old enough for service. A few bred Sows. Fall Pigs, pairs and trics not akin. I will sell you fall pigs at prices that will surprise you Satisfaction guaranteed. COLON C. LILLIE, Coopersville, Mich.

Large Improved Yorkshires 5 boars for sale. Far-reasonable. Address W.H. Parker, Grand Blanc, Mich.

ALWAYS mention the MICHIGAN FARMER when vou are writing to advertisers.

THE INDIAN RUNNER DUCK.

Until within a few years hardly anyone thought of the duck as other than a meat and feather producer. The large white Pekins were the most sought, and no account was made of duck eggs other than for hatching. Within a comparatively short time there has come to the notice of poultrymen a duck which is chiefly useful for egg production. This breed is known as the Indian Runner. It derives the first part of its name from India, its native home, and Runner from the fowl's erect carriage and tendency to run upright, in which respect it differs from any other duck. The fowls are of small 'size, the drakes weighing from 41/2 to 5 lbs., and the ducks about 4 lbs. In color they are fawn and white, and the fanciers desire the fawn to be a clear even color without penciling. Recently pure white ones have been advertised, but the beautiful marking of the fawn and white is much more pleasing. The legs and feet are bright yellow and the bill dark green. The body is long and slender. They grow very quickly, being full grown at the age of ten weeks if properly fed.

In their native land they were bred for eggs, and wonderful stories are told of their performances in this direction. It is only about a dozen years since they were first brought to this country, but they have steadily gained in favor since their introduction. Thus far breeders have had a market for most of their eggs for hatching purposes, but enough have been put upon the market to demonstrate their desirability as a food product. The eggs are white, or a very light green, and half as large again as hen's eggs. They are tender and of good flavor, and dealers who have made a specialty of them have been able to pay their shippers nearly or quite double the price of hen's eggs for them. They are in demand at Easter. But few dealers have been able to handle them, as the breed is not known and kept extensively enough to supply a general market. In small flocks of from ten to twenty the egg record per fowl has run as high as 250 eggs a year. In larger flocks they average 175 to 200 eggs a year. Some breeders state that they continue good egg producers until five years of age, but three years is an absolute certainty.

Being of the same general family as the wiid Mallard duck, they are very hardy, and generally easy and satisfac-

they have water to swim in, and they can be raised in yards enclosed by a two-foot fence. As ducks eat and then drink a few mouthfuls, water deep enough to cover their beaks should kept within their reach. They do not require warm quarters in winter; a house which hens would do nothing but shiver is warm enough for them.

If hatched early and well fed these ducks have been known to lay at 41/2 months old, and five months is the generally accepted age at which they begin laying. They will lay, exwhen moulting, cept this time from Ducks grow better and lay better, when grown, if a considerable portion of their food is of a vegetable nature. This is more especially true

those confined in va over-eat and die from appoplexy. A mash that no man ever acquired great submuch more healthful. They require all ers you must profit by the labor of othmaximum number of eggs, but it needs the putting to work of as many other to be a balanced ration. Watch a duck fellows' ideas as will pay a profit. as he forages for himself. He gets in a I have never read a good poultry perimouthful with water.

the young, and their great laying quali- except locally (I mean the ideas) ties-the Indian Runner seems a very small, but I am exceedingly well pleased ture of energy and by a person who with them and shall increase my flock needs the money. A fad brings about a largely this season. I have raised chickens in large numbers for many years, and there has always been a constant warfare between me and the various enemies that dispute the possession of them. When it is not hawks, cats, skunks, or owls, it is

vermin or disease that I have to guard

against. One has to be constantly on the

in raising ducklings than any other fowl.

The cat loves them and needs to be look-

ed out for while they are small, but so far disease has been almost entirely unknown among them. I confidently expect

to raise about every one that I hatch, and nearly every egg that I set hatches. Vermont. H. L. HUNT.

### THE TIME TO READ AND PLAN.

The evenings are beginning to get pretty long. Why not plan to utilize some of them in laying in a stock of poultry ideas? You may be a very good poultryman and yet be able to absorb some very useful knowledge from the experience of other poultrymen. We are quite prone to lean back on the comfortable assumption that "our" way is the best. What is our way? It is our application of the experience of others that has been nearest to hand on the start.

Now, I care not how good a poultryman you may be, somebody can teach you something; a number of somebodies can teach you a number of somethings, and if you are a progressive poultryman you can turn these somethings to good count in your business. The poultry business is just what you make it yourselfjust as large, just as successful. Nor do I dignify by the term "poultry business" the keeping of a few old hens, scratching for their dear old lives, behind the barn.

The farm is the ideal place to raise poultry, but just about one farmer in a hundred gets even a reasonable return from this advantage. Lack of time is the usual plea for this condition. Let a few acres of ground lie fallow, if necessary, and devote just a few minutes of each day to the poultry and watch the results. I will promise you fewer rundown acres and more dollars "year in and year out." The dollar that is made and actually killing the helpless toilers. tory to raise. It is not necessary that by the hard labor of general farming is



First Prize Indian Runner Drake at Last State Fair. Exhibited by L. C. Kelly, of Washtenaw County.

range gather their own green food in to the one obtained by the intelligent summer and only require grains, such as application of an idea. So, I say, sit corn or wheat, in limited quantities. A down occasionally and use that brain of meat ration is fully as beneficial to ducks yours in sifting out the applicable ideas as to chickens. Ducks in yards, if fed of other men's brains and putting them wholly on grain products, are liable to to work for you. It is an accepted axiom composed of half clover or vegetables is stance by his own individual physical much more like their natural diet, and efforts; that to be successful above oththey will eat in order to produce the ers. To this you can consistently add

mud hole or stream and works along the odical, or a live poultry department of a ank, finding some worms, some grass, farm paper, without having found someome seeds, and he rinses down every thing good, something which, if not new four the literal sense, was new to me. And Taking into consideration all the points not all these ideas emanate from the ferbank, finding some worms, some grass, farm paper, without having found somesome seeds, and he rinses down every thing good, something which, if not new

in their favor—the lessened expense for tile brains of professional institute talkhouses and yards, the greater ease with ers; there are a whole lot of them germiwhich they are reared, the great fertility nated in the idea factory of the obscure of their eggs, the small mortality among poultryman, some of them never working

Now don't get ideas and "fads" condesirable fowl to raise. This is only my fused. By an idea the greatest result is second year with them and my flock is brought about with the least expendiresult by a means entirely unheard of hitherto, the total amount of energy expended being only incidentally considered, as the faddist is usually in it for the entertainment furnished.

Right here let me say, in favor of the poultry department of the farm journals over the strictly poultry journals, that I have taken more solid comfort the editors of the former grow but mildly enthusiastic over fads, judging by the great predominance of the purely practical ideas advanced. To farmer poultrymen having more or less scorn for their business conducted on paper, I want to say that it is a great big mistake and they are letting a lot of good things get by them. I don't mean that you should adopt every other man's ideas but, where you run up against a plan superior to your own, just don't be obstinate.

Isabella Co. WM. J. COOPER.

### FEEDING BEES IN COLD WEATHER

The recent severe cold snap has emphasized the importance of early preparations for winter in the apiary. Colonies which do not possess food enough to carry them through the winter at the time that severe weather begins are in a bad way, since it is very difficult to feed extracted honey or sugar syrup in cold weather without endangering the welfare of the

Late in the fall after the close of the honey flow, bees cluster in a compact mass for the winter, usually on the central combs, and so remain until settled weather in the spring, or until brood rearing is well established. Giving them liquid food causes them to break the cluster and scatter over the combs in order to store it in the cells. The increased heat from the excited bees causes them to sweat and, when clustered and quiet again, everything becomes damp and clammy and, if the weather becomes severely cold, may result in their being frozen. Besides, it is much easier to keep a dry room warm and comfortable than it is a damp one.

Honey dough is no longer considered safe as a winter food, simply because it becomes soft from the moisture of the and actually killing the helpless toilers. Honey dough is made by kneading extracted honey with powdered sugar.

Bees in the condition indicated above may, however, be given hard candy, chunks or bricks of which should be placed directly over the cluster, on top of the frames. Make the candy by dissolving granulated cane sugar in water on the stove, stirring constantly but slowly until sugar is all dissolved. When done it should become brittle when dropped into cold water. Then mould it into cakes or bricks.

### MICHIGAN POULTRY SHOWS.

The winter show season, in this state, opens next week with prospects good for

opens next week with prospects good for an unusual number of excellent shows. A list of the cities that have claimed dates, for shows, is given below:

Kent City, Kent Co., Nov. 27-Dec. 1.
Alma, Gratiot Co., Dec. 4-7.
Dowagiac, Cass Co., Dec. 5-9.
Evart, Osceola Co., Dec. 5-9.
Lawrence, Van Buren Co., Dec. 13-15.
Muskegon, Muskegon Co., Dec. 19-22.
Pontiac, Oakland Co., Dec. 19-23.
Holland, Ottawa Co., Dec. 21-25.
Kalamazoo, Kalamazoo Co., Dec. 25-30.
Oshtemo, Kalamazoo Co., Dec. 27-30.
Jackson, Jackson Co., Dec. 30 to Jan. 4.
Jan. 4.

an. 4.

Lansing, Ingham Co., Jan. 1-5.

Grand Ledge, Eaton Co., Jan. 1-5.

Grand Rapids, Kent Co., Jan. 1-5.

Wyandotte, Wayne Co., Jan. 2-6.

Howell, Livingston Co., Jan. 8-13.

Manistee, Manistee Co., Jan. 11-14.

Sheridan, Montcalm Co., Jan. 15-18.

Port Huron, St. Clair Co., Jan. 17-20.

Calumet, Houghton Co., Jan. 18-20.

Cadillac, Wexford Co., Jan. 23-26.

Detroit, Wayne Co., Jan. 25-31.

Grand Haven, Ottawa Co., Jan. 30 to eb. 2.

eb. 2. Bay City, Bay Co., Jan. 30 to Feb. Charlevoix, Charlevoix Co., Feb. 7-Saginaw, Saginaw Co., Feb. 14-18.

Michigan Bee-keepers' Annual Meeting. The Michigan Bee-keepers' Association will hold its annual meeting in the Auditorium at Saginaw, Dec. 18 and 14. While the past season has, in many ways, been a

### Take Your Choice of these 32 Special Books

Let us show you free of all cost or obligation exactly how you can save money on everything you buy to eat or wear or use in any way.

Here are a number of the special books we issue. In the entire list there may be but one or two or three that will interest you at this time. But by all means get that book or books in which you are interested.

You owe it to yourself, to your family to at least investigate this big opportunity for saving.

Check Over the List Now

1 Paints
2 Pianos
3 Organs
4 Prunks
5 Pianos
6 Vehicles
7 Furniture
6 Facoling
6 Vehicles
7 Furniture
8 Roefing
6 Vehicles
7 Furniture
8 Roefing
9 Wall Paper
10 Typewriters
11 Grocery List
12 Peed Cookers
13 Tank Heaters
14 Wire Fencing
15 Carpets, Rugs
16 Euilding Plans
17 Raby arriages
18 Houseward Ranges
24 Underwear Samples
25 Automobile Supplies
26 Bicycles—Motorcycles
27 Baby's Dress and foliet
28 Women's Tailored Suits
31 Raincoats—Mackintoshes
33 Man's Clothing
34 Women's Fashion Book
34 Women's Fashion Book
35 Automobile Supplies
36 Euilding Plans
36 Garpets, Rugs
36 Building Plans
37 Raby arriages
38 Men's Clothing
38 Women's Fashion Book
38 Men's Clothing
39 Women's Fashion Book
31 Raincoats—Mackintoshes
33 Men's Clothing
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4 Pruniture
4 Paints
4 Paints
5 Paints
6 Points
6 Points
7 Paints

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Good Money in Poultry and Eggs. Cents for 3 issues of POULTRY BREEDER; 25 year. For 21 years the BREEDER editor has flock of 150 pay him \$60 to \$800 per year. GEO. S. BARNES, BATTLE CREEK, MICH.

FOR SALE-Fancy B. C. Rhode Isgood laying breed. E. S. HIGBEE, Wayland, Mich

MY entire stock of thoroughbred S. C. Brown Leghorns and business for sale. Write or call LEWIS T. OPPENLANDER, R. No. 4, Lansing, Mich. WHEN you buy Blue Belle Barred Rocks, you buy the best, in barring, sturdiness, and egg-production. Cockerels \$1. to \$5. Lake Ridge Farm, Levering. Mich.

BUFF & White Orpingtons, Buff & White Leghorns Barred & White Rocks, & R. C. Rhode Island Reds Okls. Selects \$3, Mediums \$2, Utility \$1.50 each Satifaction guaranteed. H. H. KING, Willis. Mich

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

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

M AMMOTH Bronze Turkeys—Large vigorous birds, May hatch. Toms, \$5; hens, \$4. Silver Wyandottes, cock'ls \$1.50. E. H. & J. A. Collar. Coopersville, Mich. SILVER, Golden and White Wyandottes of quality, young stock after November 1st. Fine circular free, A few white roosters. C. W. Browning, Portland, Mich. M. R. FLORENCE HOWARD, Petersburg, Mich. W. Rocks and Rose C. W. Leghorns for sale. Hens, pullets, cockerels. Write wants.

White Wyandotte cockerels \$2.50, \$3 and \$3.50, from thoroughbred stock and heavy layers. A Franklin Smith, R. F. D. 9, Ann Arbor, Mich.

DOGS.

TRAINED running Fox Hounds, and young hounds bred from famous Coon hunting parents. Full blood Jerey heifers, send stamp. W. E. LECKY, Holmesville, Ohio.

For Sale, Collies—Extra fine brood matrons, Best of breeding, open and bred. Also pupples. W. J. ROSS, Rochester, Mich.

FERRETS.



CONDUCTED BY COLON C. LILLIE.

THE CO-OPERATIVE CREAMERY.

success of any co-operative enterprise. First, the attitude of the individual toward the particular thing to be undergiven purpose, and third, he must possess some knowledge of the business to the market. be undertaken.

cessful co-operation the creamery is no we can have nothing good in the world exception. creamery must be managed by men who vidual who invests in a creamery, his are interested in the business. They own capital for private gain, must secure must be interested alike for themselves the same high quality in dairy products, and each other. The great David Swing delivered, or at least partially fail. The once said "Mankind was made for the large task or large pleasure of occupying themselves that care and energy that two worlds at the same time, the world are the burden of the private business of self, and the world of race." A community in which the individuals are selfish, each anxious only for his own financial interests, will not be likely to suc- the successful business man, must apceed There must be a community of interest as well as a community of individual progress. Each member of the company must realize that the creamery is for the public good. That its success will be an honor to the community, an evidence of intellectual and material growth and that stables in order and when the nights beits failure would case a shadow over the gan to get colder than is comfortable for business reputations of the men who are the cows to stay outside they are properly endeavoring to run it. In short, every housed. But we have in mind that class man at the outset, and all along, through of men who will not be troubled with the months and years that are to follow, stabling the dairy cows until a big snow must contribute thought and work to the storm covers the pasture lots and causes success of the enterprise, and achieving that success, even in a moderate degree, should give him satisfaction, that should go far toward compensating him for time and labor expended.

Stability is one of the fundamental requisites of the successful business man. Dark days will come. Temporary reverses are the experience of every one. Tests of courage and endurance are the lot of all, whose lives are worth while, and the men who are trying to run a creamery constitute no exception to the rest of the race. They must stay by that her and she will pay you well for the creamery, "through thick and thin." Stay by it when the price of butter falls off. not in the dairy herd. Stay by it when somebody somewhere else has gotten a better price for butterfat. Stay by it when the great centralized bles are usually untidy, if not strewed plant has sent its agent into their terri- with boards, equipped with broken mantory, authorized to pay an extravagant gers and perhaps floors, with walls cov-price for cream with the ill-concealed ered by cobwebs and chaff and condieffort to capture their business. Every tions generally unsanitary. And among man in the bunch must adopt the lan- the unsanitary conditions found the lack guage of the Irishman's motto which he of light is perhaps the most universal.

to do. Many a creamery goes down, be- mals will get an inspiration to do busicause stock holders and patrons do not ness like the owner. understand the business. Of course, knowledge of the business will teach us pail. that these variations must occur. We or worse, to charge him with intentional once now will help. fraud. The individuals, in a co-operative creamery, would should go often to the creamery. They energy for other duties. should know all about the output. They should know what overrun they are getting from month to month. They should understand just what constitutes the overrun. They should go often and see samples of cream tested. The butter cause I believe that while there is now and then a worthless fellow, trying to jority of butter makers, in our state, rank well in character, with the men of that it would take 209 of them to equal any other class. Knowledge of the busi- Jacoba Irene for a year in actual profits.

ness will induce each individual to care for his milk and cream. He will see that the cows are kept clean, that the separator is thoroughly washed and scalded, that the cream is immediately cooled down to the proper temperature and kept in a clean, cool place until it is delivered to the creamery, and he will do these Three things are fundamental in the things partly for himself, and partly because of his interest in the creamery, as a successful co-operative enterprise. He has learned that there is no alchemy taken, must be right. Second, he must that can enable the butter maker to make possess that stability of character that a product of high quality from filthy will enable him to remain steadfast in a cream, and that none but the best of butter will command an extra price in

Yes, I know that I am asking a good In the general requirements of suc- deal of the patron of the creamery, but The successful co-operative if we will not pay the price. The indico-operative company simply take upon along co-operative lines, the same care, knowledge, thrift and push that evidence a co-operative creamery, pear in us, the co-operative company. Oceana Co. W. F. TAYLOR.

### PUT YOUR BARNS IN CONDITION.

This is not directed to the progressive and up-to-date dairyman; he has his the animals to plead for something to eat. Some men neglect the cows because of indifference; how to touch this class of men is a problem of the race which, if solved, will be a boon that future generations will not soon forget. Others delay stabling out of economy; but it is not economy. The cow cannot return to her owner more than he puts into her, and when she must use a large part of the energy contained in her food to overcome the shocks of exposure she cannot put that energy into the pail. Protect trouble, if she doesn't then her place is

When the men of whom we speak are finally moved to put the cows in, the sta-

It is not economical to leave the barns desired to have placed over the entrance to a graveyard, "We are in it to stay." line this. From the standpoint of labor A knowledge of the business is of the one will, in two or three weeks, spend the greatest importance. A creamery com- time required to repair and make condipany cannot expect, however, to know tions convenient, in the extra minutes all about the business at first. If the demanded to do the chores because of the attitude of the company is right, and if stables being ill-adapted to making short they possess enough stability, they can cuts. Then ,too, cows so kept cannot do learn the business thoroughly in time, their best. Give them good stables that and this is essentially the thing for them are well lighted and clean and the ani-

We have spoken of light. If windows cream varies greatly in butter-fat con- are lacking an ordinary carpenter can tents, and variations in the test among put them in in a short time. If they are different patrons, and with the same in but admit no light, wash them. Your patrons, from time to time, cause sur- ignorant neighbor may laugh but your prise, dissatisfaction and distrust. A cows will thank you through the milk

Whitewash the walls. cannot always tell why, but we know that destroy germs and make the stables lightthey must exist, and knowing it, we are er. If done two or three times this winnot tempted to blame the butter maker, ter the results would be pleasing; but

Study the arrangement of your stables faster, and and see where work can be saved. Often get along better, if they kept closer to- the construction of a door will save a Each one should be well ac- hundred steps every night and morning. quainted with the butter maker. They It is worth while for you to conserve that

The central attraction of the great National Dairy Show at Chicago was the Jersey cow, Jacoba Irene, owned by A. O. Auten, general manager of the show. This famous cow produced 1,126 pounds maker will always be willing to explain, of butter last year, made from nearly and patrons will soon learn that he has nine tons of milk, a record cited as a no desire to wrong them, but that he is powerful incentive for the improvement doing his very best to treat every indi- of dairy cows generally throughout the vidual fairly. I say this confidently, be-country, and particularly in sections cause I believe that while there is now where the standard is absurdly low. "Just think," said Colonel Charles F. make butter in a creamery, the ma- Mills, head of the dairy cattle division, "there are 250,000 cows in Illinois so poor

# Four One-Thousand Dollar Cups Won by Montana at **New York Land Show**

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\$1000 Wheat cup won by farmer in Judith Basin, yield 77 bushels per acre.

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Owing to the very dry summer my hay crop was small, in fact I have just about enough to feed my horses till hay comes next year, with none at all for my cows. I have, however, an abundant supply of cornstalks, cut before frost, and in good condition, which I shall either have shredded, or run through a cutting box. I also have five acres of sugar beets, and will have the leaves to feed for the succulent part of the ration. The only grain I have is corn, which I intend to have ground. I am aware that this is a very poorly balanced ration, so I will expect to buy something containing the protein necessary to make up for the lack in the corn. I have thought of getting either oil meal or cottonseed meal for this purpose but it seems to me that this combination lacks the bulky nature which seems to be necessary for good results in feeding cows. I have also thought of trying dried distillers' grains which are more bulky, and also carry a good percentage of protein. Perhaps dried beet pulp might be a good addition to the corn and other heavy concentrates to give it a more bulky nature. Please give me your advice on this subject in the columns of The Farmer.

Montcalm Co.

E. H.

With nothing but cornstalks for the roughage part of the ration there is not

roughage part of the ration there is not hay or a feed of oat straw or millet hay there just as well as in a separate silo;

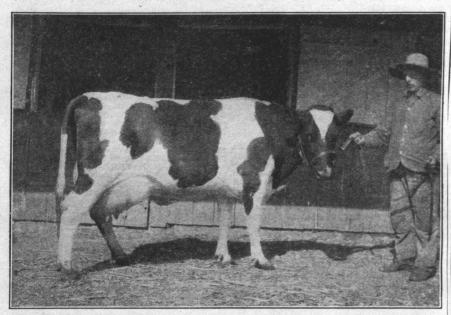
CORNSTALKS THE ONLY ROUGHAGE. bined it would be too loosening for the cows to do well, but after the beet tops are gone if you wanted to, you could substitute oil meal for the cottonseed meal and probably secure as good re-

### FILLING BEET TOPS ON TOP OF CORN SILAGE.

Hearing that you built a silo for your sugar beet tops, would like to ask if you would advise one to do it, or could they be put on top of corn fodder and keep all right? I have always fed them green, but have room in my silo if I could keep them that way.

Kent Co.

Kent Co. Beet tops can be put into the silo on top of corn silage and they will keep as well there as in any silo. I tried this once myself. The only difficulty I experienced was in getting them up into the top of the silo, that was in the days before we had the blower elevators on ensilage cutters. We put them up with an old-fashioned elevator. It was some With nothing but cornstalks for the little trouble. It was pretty hard also on the ensilage cutter as we run the tops enough variety to make the best kind of through the cutter when being elevated. a ration. Of course you could get along But the beet tops kept well. In fact, I with it and by feeding a good liberal ra- think they will keep better when they tion compounded as suggested for bal- are run through an ensilage cutter and ancing up the ration and furnishing made somewhat finer than if they were plenty of protein, you should get your put in whole. They pack in more tightly cows to do fairly well. Yet it would be and exclude more air. If you could get better if you could feed them one feed of the beet tops packed well they'll keep

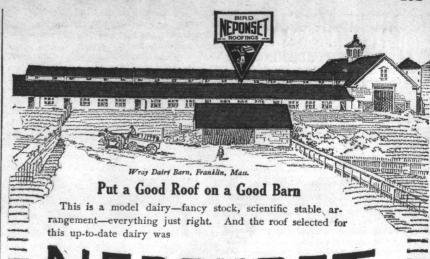


An Ohio Holstein Cow with a Record of 20 lbs. Butter in Seven Days. Good Type. or bean pods or anything of that sort but there is one objection. to give just a little more variety. If this in on top of the corn silage with your is impossible, I would, by all means, cut beet tops then you will have to feed beet the stalks instead of shredding them and tops alone as a succulent food until you I would cut as often, say, once a week, get them all fed out, and I don't like to enough to last the cows till you cut do this. I think that it is better to feed sort of bin or in one corner of a stable a day, in fact, I think that a feed once and moisten them and let them heat up a day of beet tops is all that cows ought just a little bit and soften, you can get to have. It is a fact that the salts in the cows to eat more of them and they the beet tops work on the kidneys of the would furnish a better bulky food. While cows as a diarrhetic and if fed too liberperhaps there wouldn't be very much ally for a considerable length of time, I more of it digestible than there would be have no doubt that it would not be beneif they were fed dry, they would eat ficial to the cow, but where they are fed more of it and it would give that bulk once a day only and other feeds the balto the food which you say is necessary ance of the time, I know from experience in order to get good digestion and as- that they do not injure. By having a simulation in the cows. Your beet tops separate silo for the beet tops we can will furnish excellent succulency but I feed beet top ensilage once a day and wouldn't feed too much of them. One corn ensilage once a day. This year one feed a day I think is plenty of beet tops.

cheaper, probably, than any other that some of the beet tops into the big silo; you can purchase, and it is an excellent that is, I shall do this if the weather food to feed in connection with the beet permits us to harvest the beets at all. tops, the corn meal and the cornstalks. At the present writing it doesn't seem as With the ration you already have you if we would ever be able to get onto the can mix corn meal and cottonseed meal land and harvest the beets. If-we don't equal parts by weight and feed the cows probably we can dig them out occasionthev produce pounds of butter-fat in a week, that we could feed them beet tops and and I think you will get as good results all. But that would be the only objection as you can possibly get with the limited that I could see in putting the beet tops foods at your command. If, in addition into your other sile, is that it will hinder to this, you want to feed dry beet pulp using the corn silage until you have fed it will give greater variety and make a better ration. If I fed the beet pulp I would moisten it from one feed to another and put the grain onto this beet pulp when I fed it. However, if you cut the cornstalks as I have suggested and moisten them, you could put the grain on the cornstalks and get better results than you can if you feed the grain and roughage separately. Oil meal is also an excellent food to feed here but, while you are feeding the beet tops, I would prefer the cottonseed meal because oil meal is laxative in nature and so are the beet tops and by feeding the two com-

If you fill If you could run these into a beet tops once a day and corn silage once of my silos is not full and as I have more Now for the grain ration, cottonseed beet tops than I can get into my regular meal will furnish you digestible protein beet top silo my attention is to elevate ally through the winter and all the beet tops.

The storage people are not supplied with the usual amount of butter stocks this fall and consequently cannot avail themselves of the better prices which are sure to rule and incidentally keep down prices to where they have been in former years. Their packing away butter was interfered with by threatened legislation during the past year, both by state and federal governments. The action had the effect of making prices low during the spring and early summer when storage people are usually busy getting in their supplies, and from now on the lack of storage goods will permit values to go up to where substitutes will be used to considerable degree.



# VEPONS PAROID ROOFING

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Hand your dealer a rough ground plan of your barn, and ask him to
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### **DETROIT, NOV 25, 1911.** CURRENT COMMENT.

The return of the Thanks-

Farmer reader the fact that he has many the United States. blessings for which he should be truly thankful and for which a true Thankswith the spirit of the day. As the Thanksgiving feast has for long typified the Thanksgiving spirit, and as the tur-Thanksgiving feast, this great American fowl has been used by our artist as the Over the bird, and of great importance, appears a reference to the spirit of Thanksgiving, which should be typical wall is a scroll upon which appears a reference to the defeat of the Canadian the Michigan farmer. broad sense of justice to the industry in return no more. which he is engaged and the type of

tute Association.

presidents to consider and outline the in- to the food supply of the world. stitute work for the coming winter in

township vice-presidents

asked in the letter issuing the call, to interview a number of people in their respective townships and find out whether they want an Institute or not, and if so what topics they would like discussed, also if there are any competent person or persons in the township who could be induced to prepare themselves to discuss any of the topics which the people induced to prepare themselves to discuss any of the topics which the people in their features of interest. There will also be brilliant evening entertainments, all of which, together with the annual meetings of various live stock associations held in connection with the International, make it an event which should not be missed by any Michigan farmer, interested even in a small way in stock breeding or feeding, if he can possibly arrange to attend it.

This is the title would supply agricultural necessities for populated portion of the country to settle and entertaining story, the first installment of which appears in our Magazine spendid agricultural districts.

Much the other hand, if there is a government victory it likely will mean a turning point in the conflict. Reports have come to the rother hand, if there is a government victory it likely will mean a turning point in the conflict. Reports have come to the rother hand, if there is a government victory it likely will mean a turning point in the conflict. Reports have come to the conflict. Reports have come to the rother hand, if there is a government victory it likely will mean a turning point in the conflict. Reports have come to the rother hand, if there is a government victory it likely will mean a turning point in the conflict. Reports have come to the rother hand, if there is a government victory it likely will mean a turning point in the conflict. Reports have come to the rother hand, if there is a government victory it likely will mean a turning point in the conflict. Reports have come to the rother hand, if there is a government victory it likely will nean a turning point in the conflict. Reports might know what townships desire an institute and what topics they would like discussed. The names of the township vice-presidents were given in the notice sent out for publication, so that all who read might be advised of the proper person to consult in the expression of their desires regarding the institute work for the coming winter.

Undoubtedly this is the most valuable kind of preparation which could be made for a successful institute season and the officers of the Hillsdale County Farmers' Institute Association are to be congratulated upon this progressive action, which might well be emulated by the officers of other county institute societies throughout the state. Undoubtedly the farmers' institutes may be made a very great educational force in any locality. Too often, however, the program is gotten up with little reference to the particular needs of the township or the community in which the institute is held, for which reason the institutes have not been as successful as they might be made under a plan such as is outlined above. If this plan of work could be adopted in every county of the state, there would undoubtedly be a great improvement in the character and benefits of the institutes held throughout the state during the coming winter.

The International Live The International. Stock Exposition, the twelfth annual exhibition of which will be held at the Union Stock Yards, Chicago, December 2 to 9, inclusive, should be a matter of interest to a very large class of Michigan Farmer readers. The International Live Stock

Exposition is well described as a leading Thanksgiving, giving season should bring exponent of a great movement for the home to every Michigan improvement of the domestic animals of

The power of example is perhaps the most potent factor in educational work. giving should be rendered in accordance One may be inspired more surely by a notable example of what some one has done than by the most plausible theories or even the most carefully expounded key has become almost a symbol of the facts. For that reason the International Live Stock Exposition, conducted as it has been upon the most liberal scale, has central figure in our first page design. instituted a beneficial campaign of practical education at a time when education along the particular lines of this show has been sorely needed in this country. of the day and season, while beneath it There has been and still is too little apand lying across a solid and unbroken preciation on the part of the general farmer, if not of the stock breeder and feeder, of the benefits to be derived from reciprocity pact, as one of the minor breeding and feeding a better class of causes for thanksgiving upon the part of stock, as well as a failure to understand the Michigan farmer. This allusion is that from this time on the country must not made in any political or partisan depend mainly upon the farms for meat sense, as the words of the artist might and draft animals, since the days of maxbe misconstrued to mean, but in the imum range production have passed to

Not alone must the farms of the coun-American manhood which he represents. try be depended upon to furnish our own There are, however, other and greater meat supply, but there is open to them There are, however, other and greater meat supply, but there is open to them the sugar beet men to fight the propaganda of the cane sugar people who desire to put raw sugar on the free list. It is declared by the sugar beet adherents that this season may not only be one of feasting, but as well one of true Thanksgiving for the many blessings which we enjoy in comparison with the greater in Europe for any stored a profitable market in Europe for any size to them the sugar beet men to fight the propaganda of the cane sugar people who desire to put raw sugar on the free list. It is declared by the sugar beet adherents that such an action on the part of the sugar beet men to fight the propaganda of the cane sugar people who desire to put raw sugar on the free list. It is declared by the sugar beet men to fight the propaganda of the cane sugar people who desire to put raw sugar on the free list. It is declared by the sugar beet adherents that such an action on the part of the sugar beet men to fight the propaganda of the cane sugar people who desire to put raw sugar on the free list. It is declared by the sugar beet men to fight the propaganda of the cane sugar people who desire to put raw sugar on the free list. It is declared by the sugar beet men to fight the propaganda of the cane sugar people who desire to put raw sugar on the free list. for true Thanksgiving which a profitable market in Europe for any people of any other land or any other the gathering together in one place the best specimens of cattle, sheep, swine A Progressive Insti- making the coming in the world, thereby presenting to the ally profitable to the farmers of the they may be inspired to the production county, the officers of the Hillsdale Coun- of better animals for breeding, marketing ty Farmers' Institute Association recent- and exporting, thus adding to the profit ly called a meeting of the township vice- derived from our American farms and

Among its features this exposition embitiate work for the coming winter in Hillsdale county. It was the expressed belief of the president and secretary of the society, who took the initiative in calling this meeting, that with the enthusiasm manifested last winter in this work, a conference of this kind would programs which would arouse the general programs which would arouse the general interest of the farmers of the county.

The township vice-presidents were

Among its features this exposition embraces a grand breeders' prize exhibit of braces a grand breeders' prize exhibit of braces a grand breeders' prize exhibit of braces a grand breeders' prize exhibit of the missions. It is reported that an advance on Nanchan, has been estarted by the rebels who are sending their fleet of vessels up the Yangtse Kiang river. The vessels are almost impassable.

Carroll Co., Nov. 17.—The first snow Americans. It is declared that the Imbaltiants find themselves.

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It is reported that an advance on Nanchan and the condition in which the starts that the middle that an advance on Nanchan and the condition in which the search and gravel certain the this that an advance on Nanchan and the condition in which the search and gravel certain the thoth which the search and gravel certain the thoth which the search and gravel certain the thick that the Imbaltiants find themselves.

It is reported that an advance on Nanchan and the condition in which the search and gravel cert were pliances, etc.; slaughter tests to deter-

and entertaining story, the first installment of which appears in our Magazine Section this week. A story properly planned and well told not only furnishes pleasant recreation but affords the reader a certain amount of suggestion and instruction which, perhaps, could be given in no other way. We feel that in "The Bachelor Uncle" we have secured such a story, and one that will hold the interest of our thousands of readers from the first to the last chapter. It was selected because of its constant and increasing interest; because it is highly entertaining; because its general moral tone is good and in the end, after many viclssitudes, the right prevails. It is a populated portion of the country to settle in Manchuria and avail themselves of her splendid agricultural districts.

Much anxiety exists over conditions in Marcho. The United States authorities have provided for a closer watch along the border line to prevent rebels furthering their plans on this side. The governor of Texas has ordered all rebels to leave that state. The Mexican government has located 12,000 troops in the northern states that no time may be lost selected because of its constant and increasing interest; because it is highly entertaining; because its general moral to be a story, and one that will hold the interest of our thousands of readers from the first to the last chapter. It was selected because of its constant and increasing interest; because it is highly entertaining; because its general moral to the country to settle in Manchuria and avail themselves of her splendid agricultural districts.

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### HAPPENINGS OF THE WEEK.

### National.

National.

Employes of the Pennsylvania lines living in Indianapolis have formed a cooperative association for securing supplies. Already a consignment of goods has been delivered to the association and much satisfaction is expressed on the part of the members because of the low prices. Orders are taken for the following month when the distribution is made. The Michigan-Pennsylvania football game, which was played at Ferry Field, Ann Arbor, last Saturday, resulted in a victory for the Wolverine players, the final score being 11 to 9.

The fall of heavy snows in the Cascade mountains and heavy rains have caused floods in western Washington, and at Seattle the municipal electric plant dam has given away, the city's water supply is cut off, railroad service is demoralized and bridges are washed out. Many farms along the valleys are flooded. Farmers of Texas are reported to have in their hands 700,000 bales of cotton which they are holding for higher prices. It is also declared by State Commissioner of Agriculture Kone that there will be planted 25 per cent less acreage another year that the farmers may receive for the product a reasonable price for the labor required to produce it.

Much damage was done the boats on the great lakes last week by the heavy storms which prevailed over this section. Many boats have been placed in winter quarters earlier than was expected because of the snow and the storms. A foot of snow has fallen at Escanaba. At Martin river, below Quebec, a Norwegian barge was driven ashore and her crew, which numbered 15 persons, lost their lives.

Dr. Wiley, of the Department of Agriculture, declares his intention to bar

lives.

Dr. Wiley, of the Department of Agriculture, declares his intention to bar from the United States, absinthe—a drink much used in European countries—because he believes it dangerous to public health and as such can be kept out of the United States under our present laws.

An organized effort is being made by the sugar beet men to fight the propagands of the cape sugar people who desired.

Foreign.

throughout Switzeriand last Saturcay, So violent were the shocks that in Geneva street cars were derailed. The interruptions were felt over Germany and Austria. At many places considerable damage was done, but no loss of life is

reported. reported.

The Duke of Connaught formally opened the first session of the 12th Parliament of Canadian government last Thursday. The Duchess of Connaught was at the side of the Duke when the session was opened. It is the first time since the regime of the Marquis of Lorne that a woman has been on the throne.

### CROP AND MARKET NOTES.

Livingston Co., Nov. 13.—The severe winter weather that started yesterday caught farmers with not more than 60 per cent of their corn secured. Farmers need three weeks of good weather to get in shape for winter. Stock is being marketed freely on account of scarcity of feed and high price of same. There will not be more than one-fourth as many lambs on feed in this section this winter as there was last, feeders having become disgusted with the business last winter because of low prices. Feed is so high that they do not seem inclined to stock up heavily this winter. Wheat will go into winter in good condition. More rye sown this fall than usual.

Lapeer Co., Nov. 16.—Snow squalls and

sown this fall than usual.

Lapeer Co., Nov. 16.—Snow squalls and rain this week. Ground frozen about two inches; lots of sugar beets fast. But little corn husked as yet; much of it is shock in fields. Just about enough being husked for necessary feeding. Bean threshers are kept busy. Some potatoes moving marketward lately; price around 60c. Beans (best) about \$2.20 per bu; corn, per crate of ears, brings about 34c. We do not hear any complaint of potatoes rotting in this part of the state, but corn has been damaged some by the excessive rains. Some corn has moulded at the butts, reducing the feeding value of the stalks about 25 per cent. Prices for farm labor as high as in midsummer, viz., \$2 per day and sometimes more.

of the stalks about 25 per cent. Prices for farm labor as high as in midsummer, viz., \$2 per day and sometimes more.

Washtenaw Co., Nov. 17.—The weather has been most unfavorable for the completion of fall work and in consequence much remains to be done. Fully half of the corn is in the field as yet and even potatoes and sugar beets are not all secured, and, with a week of snow and cold weather, mixed in with a day of sleet, the condition of the ground will be such as to make it an almost impossible job. The year bids fair to make a record for unfavorable farm conditions. The potato market is going up from day to day, tubers now selling at 80@85c from farm wagons and will without doubt touch the \$1 mark in the next few weeks. Stock of all kinds plentiful and prices lower. Hogs, \$5.75; cattle, \$4@4.50; sheep, \$2.50@3 per head. Hay selling in barn from \$15@17 per ton. Prospects are that feed of all kinds will be scarcer and dearer than for many years.

Ottawa Co., Nov. 17.—A sleet storm commenced shortly after midnight last night, and the trees and fences are covered with ice this morning. But as quite a heavy rain is now falling, the ice will probably do but little if any harm. A large amount of corn is still standing in the fields unhusked, and where the corn has been husked the fodder is still out, so that it will be badly damaged. Farmers have been obliged to work between showers in order to get any kind of work done this fall, because in the past

best specimens of cattle, sheep, swine

As a means of and horses that are to be found anywhere and horses that are to be found anywhere in the world, thereby presenting to the season's institute work more generate farmers of the first the world. States a valuable object lesson whereby they may be inspired to the production of the United States a valuable object lesson whereby they may be inspired to the production of the United States a valuable object lesson whereby they may be inspired to the production of the United States a valuable object lesson whereby they may be inspired to the production of better animals for breeding, marketing and exporting, thus adding to the profit of the township vice- and outline the interior was the expressed dent and secretary took the initiative in that with the en-lest within the en-lest within the en-lest withing and province and outline the interior with the en-lest withing and province and outline the interior withing the coming salary of draft and general Dursel of the world.

So that it will be badly damaged. Farmers have been obliged to work between the selection of federal officers. It is expected by some that the rivalry because in the parties will result in a respected by some that the rivalry because in the parties will result in a result of the parties will result in a result in a result in a result in a result of the parties will result in a result

# 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

# e Bachelor Uncle-By Everitt McNeil.

The Coming of Teddy and Ellen.

My hair rose slowly on end, as I read the following letter:

My nair rose slowly on end, as I read the following letter:

Wednesday, June 9, 190—.

"Pear Brother John:—

"Fred and I are going to Saratoga for a three-weeks' stay, and we are going to send the children to you. The country air and life will do them good; and I shall feel certain that no harm can come to them, if I know they are in the care of the best brother any sister ever had. They are the dearest and sweetest children in the world, and I am sure they will not give you a moment's trouble. Teddy—his real name is David Samuel, but since Roosevelt shook hands with him he insists on every one calling him Teddy—is an exceptionally bright boy, and one of the most lovable and obedient children that ever blessed a mother. In many ways he makes me think of you, when you were a child of his age; and I am sure you will love him dearly. Ellen is the dearest little girl, with such cunning ways, that I know that she will walk right into your big, loving heart.

"Fred and I wish to go Saturday, and so we shall start the children on their way to you Friday morning, on the train that reaches Plumville at five o'clock in the evening. Please be at the station to meet them.

"Fred unites with me in sending love to you, and remembrances to all the

meet them.

"Fred unites with me in sending love to you, and remembrances to all the friends, especially to dear old Mary Jane, who, for our sakes, I am sure will be like a mother to Teddy and Ellen.

"Now, be sure and be at the station when the train comes in.

"Your loving sister,

Esther.

"P. S.—Don't forget to give Teddy and Ellen 'a glass of milk every night just before they go to bed; and be sure the windows are closed in Teddy's room, so that no draft of air can reach him during the night; and please don't let him get his feet wet. Teddy looks strong, but he really is quite delicate.

"Your sister,
Esther.

"P. S.—Oh, I almost forgot, but please

"P. S.—Oh, I almost forgot, but please give Ellen a spoonful of cod-liver oil every night; and have Mary Jane sleep in the room with her, so that if she wakes and wants a drink or anything she will be there to get it for her; and please give her two fried eggs and a piece of buttered toast and a glass of milk for breakfast. Ellen is delicate, and we have to be very careful of her. "Lovingly, Esther.

"P. S.—I shall send the cod-liver oil with the children's things. Please do not forget to give the oil regularly each night just before Ellen goes to bed. Esther."

"No, you don't!" I hastily ejaculated, the instant I had finished reading this

the instant I had finished reading this letter. "I'll not be responsible for 'the dearest and sweetest children in the world.' They would be sure to break their arms, or fall down 1/4 their arms, or legs, or necks, or to fall down the well, or tumble into the cistern, or set fire to the barn, and to turn everything in the house topsyturvy, and drive Mary Jane and myself crazy with their outlandish pranks. No, you don't, sister mine; not if I can send a telegram in time to stop you!" I glanced at the letter again. "We shall start the children on their way to you Friday morning." "Great Caesar!—and it is now four o'clock, Thursday afternoon!" jammed the letter into my pocket and hurried to the barn.

I called to the hired man "Jake!" "hitch the horses to the carriage at once. Caleb James brought me a letter that the train came in a boy and girl jumped red in the face. sends me to Plumville on the double- off the steps of the rear coach and looked quick," and I rushed into the house to eagerly around. I had never seen my change my clothes.

Esther's letter terrified me. Two chil- once. He had the map of his ancestry dren-a boy and a girl! The worst pos- on his face. sible combination, for what the boy could not think of the would-coming to stay with me for three weeks! And I never could pick up even running to me, he took my extended a baby, without something breaking loose hand in both of his and shook it vigor- ing conflict and soon had Hans mollified and the youngster beginning to howl! I ously, looking up sharply in my face. jumped into my clothes, and in ten minutes I was on my way to Plumville, de- John," he said. "Ma says the Delvins deposited in the back of the carriage. my sister's children.

"Hello, Delvin!" he called. "You are just the man I want to see.

The operator gave me a telegram for girl caught me by the hand. "I am you," and he handed me a yellow en- Ellen, Uncle John. Kiss me," she deyou," and he handed me a yellow envelope.

velope My heart misgave me as I tore open the envelope and read:

"Changed my mind. Go Friday. children Thursday. Be at station Go Friday. Send Esther."

'Nobody dead, I hope?" the man asked.

"No," I answered. "It's worse," and

whipped up my horses.
"Well," I thought grimly. "It's better to make the best of the worst than it is to let the worst get the best of you. I'll swallow my pill. But, what am I going about as soon handle a stick of dynamite the baggageroom. as to touch a boy-and a girl!" I groan-

manded.

It was a very sweet little face that looked up into mine, and the kiss was given willingly.

"And how old is Ellen?" I asked.

"I'm eight, and Teddy, he's ten; and we've come to visit you, and I've brought Queen Ann and Princess Elizabeth, and Teddy's got his gun, and ma sent a lot of things, and her love, and some cod-liver oil, and-oh, Uncle John, have you got any teeny, tiny, little piggies? I—"

At this moment Teddy gave a yell and started after the baggagemaster, to do with those children! I would just was wheeling a couple of big trunks into

Stop! That's my trunk! It's

"I am "You see he is just like Teddy Roose-she de- velt," and she looked admiringly at her brother, as he climbed boldly over the wheel into the carriage.

My farm is two miles from the railroad station, and during the ride home the two children poured a continuous stream of questions into my ears. They had never been on a farm before and had the queerest idea of what farm life was like, while the suggestiveness of some of of their queries sent cold shivers of apprehension chasing up and down my "What shall I do?" I spinal column. groaned. "Something dreadful is sure to happen. I can feel it coming in my bones. I'll send the children-" I looked at the two bright happy faces by my side and never finished the thought.

It was dark when we reached the farm I took the children straight into the house and told Mary Jane to get supper When Teddy and Ellen for us at once. came to the table both looked surprised to find only Mary Jane and myself to eat with them: and I could see that Ellen was troubled quite a bit over something. Presently she looked up into my face and said: "Uncle John you ought to be married, so you could have little cousins for us to play with. Uncle Ben is married, and has got five cousins, and Uncle Richard has six, and a wife is such a comfort to a man."

"The dear girl!" ejaculated Mary Jane. "That's just what I have been tellin' your uncle these five long years."

"Oh, pshaw!" I responded, getting a little red in the face, for the topic was not a pleasant one to me. "Mary Jane takes the very best of care of me; and, as for company, wait until you see the six calves, the dozens of little pigs and lambs, the cows and horses and chickens and turkeys and ducks and geese, not to count Bruno, the big Newfoundland dog, before you complain of the lack of play-

Ellen's eyes became quite big. what lots of things there are on a farm," "But, won't geese or pigs hook? Mamma said that there was something on a farm with two horns that hooked, and that I must run when it looked at me."

"I know what she means!" Teddy ex-"It's a cow! And I claimed, excitedly. brought my rope along on purpose You see I know Teddy catch cows. Roosevelt," and he sat up very straight in his chair. "And I've seen Buffalo Bill's cowboys."

"But, after all is said, cows, an' horses, an' hogs, an' chickens, an' such ain't as satisfyin' as a wife an' one's own children," Mary Jane remarked, reverting back, after the manner of her sex, to the subject from which I had purposely led the children. "It's goin" against Providence for a man with a good home, free from debt, to-

"Oh, drop that subject, Mary Jane," I interrupted, half angrily, for every word day I will get desperate and marry Red Murdock's daughter, and I am sure the first thing she would do would be to turn

"while you are in your right senses, for you don't fancy that brazen Belle Murtrunks mit der baggageroom in; und I dock's peppery tongue no more than I do: but there's Judge Lamont's daughter, Elsie, as sweet an' pretty a maid as ever made a pat of butter, an' I am sure I

At that moment Teddy gave a yell that such a bang with his knees, as he did so, "I am real glad you did not let Teddy that he knocked a plate of soft-fried eggs

### THANKSGIVING.

### By Richard Braunstein.

Why must people be specific, In a dead perfunctory way, Itemizing all their blessings On one duly scheduled day? When you're breathing ev'ry second, And your pulse is running high, And your home is on a hill-top Pressed up close against the sky-If you're really living, Ev'ry day's Thanksgiving.

When each morning paints new pictures, Splashes red, and mauve, and brown On the autumn-softened canvas Of the hills beyond the town; When the frost does crystal etchings On your study window sill, It's a good thing to be living On the old brook-riddled hill-If you're really living, Ev'ry day's Thanksgiving.

When your work at night is finished, When you push the dull books by, Snuff the light to see the better All the big star-sprinkled sky; When your brain with recollection And delightful fancy teems, And the thoughts you had in waking, In your sleep keep on as dreams-If you're really living, Ev'ry day's Thanksgiving.

sister's children, but I knew the boy at the truck and looking at Teddy. "Vell,

girl certainly reach them the boy saw me.

"Hello! Uncle John!" he called; and, "I knew you by your size and nose, Uncle termined not to have my life wrecked by run mostly to bones and noses. I've a my sister's children. Delvin nose," he added, proudly. "My, Near the outskirts of the town I met a what a football player you would make, fighter with his fists. He once made Tom Mary Jane's lap, sent the milk flying all Uncle John!"

ed and glanced at my watch. The train got my gun and rope in it! Stop, or I'll hit a sore place in my heart; "or, some knock your head off!" he called, as he I drove direct to the station. When ran, shaking his little first and getting

The baggagemaster was a Dutchman. You out of the house, bag and baggage." Vell." he said, letting go the handles of "No fear of that," she responded, "Vell," he said, letting go the handles of little poy mit der pig tongue, I goes der I hurried forward, but before I could take you mine knees over and sphant. sphank, if you say some more dot you mine head vill knock off."

I hastened to the scene of the impend- once thought-heavens an' earth!" and smiling broadly, and the precious nearly cracked the ceiling, and jumped trunk of my pugnacious nephew safely suddenly to his feet, hitting the table

"My, hurt that big man. Teddy's an awful half way across the table ker-slap into Dinwood's nose bleed," Ellen confided to over my shirt bosom, upset the teapot Then, before I could get in a word, the me as I helped her into the carriage. and made every dish on the table dance.

motion came a series of ear-splitting at me. yelps, as Bruno, my big Newfoundland try an' see if you can't make her take dog, rushed frantically out from under the oil." the table, his back steaming where the boiling contents of the teapot had struck but I did not laugh. After Ellen's touchit. Ellen screamed, Teddy yelled, the dog ing prayer a laugh would have sounded yelped and Mary Jane said, "Heavens irreverent. Besides, I really sympaearth!" again and again.

apologized for and explained the catas- no more need of taking the nasty-tasttrophe in this wise: "Oh, Uncle John, I ing cod-liver oil than a duck of carrying made a rush for the children. did not mean to do it; but, you see, all an umbrella. a sudden, I felt something cold and to be done. hairy and big rub against my bare legs (he had on short trousers and short spoon, Mary Jane," I said. stockings) under the table, and I thought When I had the oil and the spoon in it might be a bear, and I just couldn't my hand I turned out a spoonful of the help but jump and yell, it was so sudden, oil and called: "Ellen, Ellen, come, Eland unexpected, and then the milk and len! Kitty, Kitty, come, Kitty!' eggs jumped and the dishes began to The cat jumped up quickly from the and good sword, sister! I will defend dance, and Ellen to scream, and the dog cushion where she had been lying and thee to the last!" Teddy shouted back, eggs jumped and the dishes began to to yelp, and-and-Oh, Uncle John, I ran purring to my side. Ellen only stuck really wasn't afraid, only scared; and her head out from under the table and the strength of his two sturdy arms. I'm awful sorry. Poor old doggie!" and, regarded me with wide-open-eyed amaze-jumping from the chair, he ran to where ment. Bruno lay licking the spot where the hot tea had fallen, and threw his arms around the dog's neck; and from that moment the two were fast friends.

"If papa was here he would put Teddy to bed," Ellen remarked, looking suggestively at me. "He always sends Teddy to bed when he goes off with a bang like that."

Well, to tell the truth, I rather liked the rumpus, barring the milk that came my way. For one thing it had shut Mary Jane's mouth on the subject of my marriage just when her words were beginning to hurt the worst, and it had been as funny as a circus to watch her kindly old face during the various exciting episodes of the tumult. In her fright and amazement her false teeth had dropped out, and her spectacles had slid down on the end of her nose, while the wrinkles had been chasing one another all over her face, in the most ludicrous man-

"Well, Mary Jane, what shall I do with Teddy?" I asked, smiling. "You seem to have met with the most damage, and, therefore, should have the punishing of the guilty one. Shall I whip him, or send him to bed, or both?'

"Bless me! I don't know!" ejaculated the flustrated old lady, "unless you soak him in cold water an' put him to bed."
"Hurrah, the very thing!" I exclaimed,

laughing. "I am sure he is hot and dusty enough to enjoy a good cool bath, and tired enough to be in bed; besides, it is after 9:00 o'clock. Come, Teddy, sentence has been pronounced against you," and I led the reluctant boy to the bathroom. As he went out of the room he turned and called to Mary Jane: "Don't forget to give Ellen her cod-liver oil; she likes it."

When the door closed behind us he emarked, regretfully: "I'd like to stay remarked, regretfully: and see the fun when Mary Jane tries to give Ellen the cod-liver oil. At home Ellen always had the oil in her own of the children. room, and pretended to take it, but really gave the most of it to her cat. She said the cat liked it, and it was naughty to be stingy, so she just touched the tip of her tongue to the big spoonful of oil, and I stopped. The barnyard contains about gave the rest to the cat. Ma saw the oil an acre of land, with various sheds for getting less and less and was satisfied, and Ellen never told because she said a high board fence. the Bible said you mustn't tell of your yard is a large pond where the ducks and good deeds; and the oil was good for the geese swim. The barn is built on a small cat, for it got fat, and Ellen made me promise not to tell, and you musn't tell either, 'cause it's a secret. Ellen can kick awful hard for a girl, and I'll bet my two hundred hens and fifty or more jackknife against yours, Uncle John, that ducks. Mary Jane can't make her take a drop

I declined to take the bet, but, after I had stowed Teddy safely away in the bed which I had put up in the large room where I slept, I returned to Mary Jane, curious to know whether or not Teddy's prophecy was correct.

nowhere to be seen.

"Hello!" I called. "Where's the girl?" the table. "I am saying my prayers. And then the child began: "Please God make Teddy a good boy, and find Uncle John a wife with some little cousins, and make Mary Jane stop 'flicting me with cod-liver oil. Bless papa, and mamma, and Teddy, and Uncle John, and Mary Jane when she stops 'flicting me with beasts. Indeed, Ellen was in imminent it without flinching was the highest form for cats, oh God. Amen."

"Bless me! I never saw such a child!"

I really sympathized with the child. She was as healthy terror to any childish heart. When the hubbub had subsided Teddy as a little girl could wish to be, and had However, something had

"Give me the cod-liver oil and the

ment

"Ellen, Ellen, come Ellen!" I repeated. Ellen continued to look at me without moving.

"Very well, then," I said, "the cat shall have the oil," and I held the spoon down. Tabby quickly lapped up the oil and, looking up into my face, purred for more.

Then there came a rush of white from under the table, and two soft arms were thrown around my neck, and kisses show-ered on my face. "You're the bestest uncle that ever was, and I love you already 'most as much as I do my papa and mamma, and cats do love cod-liver oil, don't they?" Ellen exclaimed, between her hugs and kisses. "Good-night," and she gave me a great smack right on the lips, and running up to Mary Jane said: 'Now I am ready to go to bed, Mary Jane."

As she took the little white hand in her wrinkled old one and led Ellen from the room, Mary Jane turned to me and remarked: "I am afeard Esther's babes will liven up the old place a bit."

### CHAPTER II.

### A Battle Royal.

I was always an early riser, even for a farmer, and when I awoke the next morning the sun was not yet up. was sleeping soundly in his bed. I dressed as quietly as possible, so as not to rifle, but the gander was in the rear awaken him, and went out to the barn to help feed and milk the cows and to attend to the other stock. Jake, my hired man, was up in the loft throwing man. down hay for the horses, and I was in the cow stable milking, when, suddenly, there arose such a deafening clamor of gobbling turkeys, squawking ducks, cackling hens and hissing geese in the yard back of the barn that I nearly upset my milk pail in my haste to see what was happening, for, amid the babel of sounds, I thought I could distinguish the voices

"Great Scott! And they are only just out of bed!" I groaned, as I rushed toward the scene of the commotion.

The moment I reached the stable door an acre of land, with various sheds for the cattle and sheep, and is enclosed by Just south of the knoll and from the door where I stood I could overlook the entire yard. I had a large flock of turkeys and geese, and Apparently all these fowls were on the warpath, led by the turkey gobblers and the ganders; and the objects of their attack were Teddy and Ellen. royal that stopped me where I was.

Ellen stood in a corner of the barnyard as I would the hand of a man. fence, with hands pressed tightly against Teddy's face flushed red, and he looked the sides of her dress, her face as white down. "Uncle John," he said, in a low I found the old lady standing in the as milk, and her big frightened eyes voice, "I don't deserve your praise. I middle of the room, the bottle of cod- watching, with dauntless trust, every was never so scart in my life; but, you liver oil in one hand, a large tablespoon movement of her brother. From where I see, there was Ellen and it would have in the other, and a flush of excitement stood I could see her tremble, yet she did been awful if those horrid things had got on her kindly old face; but Ellen was not cry. And Teddy was proving himself at her. And that turkey cock looked front of her, a stout wooden sword in his made such horribly gobbling noises, and "Here I am, Uncle John," and her right hand, his air gun in his left, and a that awful white hissing thing! Oh, Unbright eyes peeped out at me from under great toy pistol in the belt around his cle John, I always do want to be brave!" His face was white, but there and the little lad burst into tears. was a grim determined look about the I stooped quickly, and, gathering him boyish mouth that told, more plainly than up in my arms, held him close and comwords could, his purpose to defend his forted his troubled little soul by explainsister, even to the death, for to the two ing to him how he had shown the noblest city\_children these unknown monsters of kind of courage in defending his sister, the barnyard were terrible and deadly and that to fear danger and yet to face cod-liver oil. Cod-liver oil is very good peril from wing and beak; and only the of bravery. Presently the tears were bravery and sturdy strength of Teddy gone, and when I put him down he said. kept the turkey cocks and the ganders

Right on the heels of this frightful com- exclaimed Mary Jane, looking helplessly from tearing the bright red dress, which "I can't do a thing with her. Do had so enraged them. In front of the two children were all the fowls of the barnyard, led by an old gander and a The whole scene amused me immensely, mammoth turkey cock; and all were cackling, squawking, hissing, gobbling and ruffling up their feathers and stretching out their necks in a way to strike

At the moment I reached the stable door the turkey cock and the gander both

"Here they come! Look out!" Teddy shouted, and dropping his now useless rifle he gripped his sword with both hands and swung it aloft.

"Oh, Teddy, don't let them kill me!" Ellen cried, shrinking back closer into the fence corner.

"Trust the strength of my right arm I will defend and he brought down his sword with all ed neck of the gobbler, and was delivered with such vim that the wooden blade snapped in two, while the turkey cock turned a double somersault backward and whirled and thrashed around in the throes of death. With a shout of triumph Teddy dropped the broken sword, and, bending down quickly, seized the air rifle by the barrel and swung it above his

"Bravo!" shouted the hired man, almost ready to leap from the loft window in his excitement. "Even the Black Knight could not have struck a better blow!" My hired Englishman, Jake, was literary and had just finished reading Ivanhoe "Now, knock th' bloomin' 'ead off that old gander!" he yelled.

For my part the sight of the lad's courage had thrilled through me like old wine, for I love the sight of a brave deed; but I did not care to have that athletic nephew of mine knock the bloomin' 'ead off' of any more choice specimens of my poultry, so I gave a shout and rushed to his rescue, scattering hens, ducks, geese and turkeys in every direction. I was just in time, for the wise old gander, taking advantage of the opportunity afforded by the broken sword incident, had seized Teddy by the seat of his trousers, and was beating him furiously with his great strong wings Teddy yelled and struck blindly with his where the rifle could do little execution, and the blow from a full-grown gander's wing is not to be despised even by a By the time I reached him the gander had knocked the breath nearly out of Teddy, but not his courage, for he had dropped his rifle and was pounding the great bird with his firsts when I caught him up in my arms and forced tne strong beak to let go with a kick from my heavy boot.

"Hand me my rifle, quick, Uncle John! he cried, struggling in my arms. kill that old hissing thing! I'll-"

Then there was a glad cry and Ellen threw herself into my arms.

"Oh, Uncle John, you saved my life and I love you!" and she burst into tears. I took Teddy on one arm and Ellen on the other and bore them in safety out of the yard, amid the cackling, squawking, hissing protests of all the feathered folk. Then I returned and sadly picked up the dead turkey gobbler, the prize bird of my flock, and, carrying it to the fence, threw it at the feet of Teddy.

"There, Teddy," I said, "we will have a prize-turkey dinner today, thanks to your strong right arm and good sword You have proven yourself a hero; and I am sure Teddy Roosevelt would do as I do, if he had been here and seen you was the sight of this astounding battle defending your sister," and I clasped his right hand in mine and shook it heartily,

worthy of her trust. He stood directly in so terribly red, and angry, and big, and

(Continued on page 467).

A "Teaser" For Jaded Appetites—

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### THINGS TO BE GLAD FOR.

BY L. M. THORNTON.

Things to be glad for? Blue of the sky, And crisp cool breezes that riot by; The sweep of meadows that stretch away, And bins of barley and mows of hay. Cattle and horses, and soft-wooled sheep, And a cellar stocked for the winter's keep.

Nuts new-gathered and apples gay, Plenty and more on Thanksgiving Day.

Things to be glad for? A shelter warm,
Through cold of winter and biting storm;
A cozy chair and a book to read
For the mind's uplift and the body's need.
Though trees are barren and leas are white,
Rest and comfort and heat and light,
The calm and peace of my simple way
Are blessings I prize Thanksgiving Day.

Wis berry preserves this very minute, and skis when the snow crusts over."

"May your wants always be as easily gratified," his wife answered with laughing seriousness, placing the chairs and laying a couple of letters by his plate.

"Mr. Stallman brought the mail," she said. "There's a magazine and a couple

Things to be glad for? A friend sincere,
Leal and loyal from year to year;
The voice of kindred, their clasping hand,
And hearts that my own heart understand:

"Yes. I've one from Mary"

shade, And a soul of the Future unafraid. Life's humble things are they all, do you

Day

### WHERE THE HEART IS, THANKS-GIVING IS.

BY MRS. FRED NISEWANGER.

Winter comes early ten thousand feet above the sea so, although but a little past the middle of November, it was not surprising to see the buck bushes bending under the weight of snow that had in her hand, been falling all afternoon with the soft persistency of Rocky Mountain countries.

little home in the shadow of the firs, a letter and a slip of paper in her hand, her eyes absently following the fading outline of Jed Stallman and his pinton, who were on their way home from the grocery and postoffice, and had left the Vernons' mail in passing.

She was dimly conscious of crackling pine knots and playful shadows that were beginning to dodge about in the darkening room, for their insistence intruded on that other picture of home hundreds of miles beyond the mountains, down where the grasses were yet brown and the pumpkins still gleamed in some of the corn rows.

the mist from her eyes and once more she skimmed through her father's letter, lingering with tightened lips over the last sentence, already memorized: "It is little Thanksgiving present for you, little girl, to use just as you please; but we hope it will bring you back to eat Thanksgiving dinner with us."

because its figures just covered the price didn't want me to see it." of a round trip ticket and necessary Then he put the bills in her hand comforts, with a little extra for pin mon- again." "There's the price and," with deof a round trip ticket and necessary flakes fell with a monotonous prophesy stand on end." of the long train of days that must come went into her bedroom.

When she came back ten minutes later now," her mind had reasoned, against and spoil me uterly!" the longing of her heart, "even if he had considered slowly in answer to a take the stage next day. tantalizing mental suggestion, "it would

they were still among the home folks. It He loaded her with messages and talked a long step from the banker's home on cheerfully and steadily so in Gregory to the ranchman's home in not until he gave her the long kiss, at the this fir-rimmed park, and there is a dif- conductor's trite "All aboard," that she ference between a month's vacation in felt a little catch in her throat. the mountains with a party of fellow much by one's self.

With a glance at the clock, Lisle recare to the preparation of the meal with scores of friends who would welcome her. an unconscious feeling of guilt because she had faltered when she heard the shade. The mountains were behind her home call. A cook's conscience makes -a rugged wall reared between her and restitution through her preserve jars and her new life. Before her were the plains, jelly glasses

ful eyes. "Isn't this fine?" he demanded. "I like a nice little snowstorm when I'm comfortable and know that everything outside is, too.'

"You great, big boy!" Lisle smiled. "I'll warrant you want to hunt up a hand sled or make snowballs this very minute."

"No, I don't," Rob grinned, with a "I want glance at range and table. broiled grouse and hot biscuits and sar-

Rob picked up his letters. "Didn't you

"Yes, I've one from Mary," taking it Loved ones near me through sun and down from the clock shelf and handing it to him. "She's as jolly as ever; it will do you good to read it."
"All right," Rob agreed, for they al-

But 'tis these that make Thanksgiving ways shared each other's mail, "though I'm not in any special need of being jollied up."

> He looked questioningly at Lisle, hesitated, then tore open his letters and read them aloud as he ate. Several times during the evening he glanced at her wonderingly and, a couple of days later, when he had puzzled out his answer, he came up behind her quietly, as she sat sewing, and tucked a little roll of bills

Lisle looked up with a surprised, "Why what-Rob?

"For your Thanksgiving back home Lisle Vernon stood at a window of the dear," he answered with his quick, kind

money you need to finish up "The your sheds," she accused.

"The money the sheds can get along without," he corrected, dropping down beside her and taking her in his arms.

"Oh, I'm not so stupid as I look, little woman," he went on, with a raillery that sounded a little forced. "You've been brave and you didn't intend me to know there, dear, don't-" his own voice was husky, "but I've seen that it was going to be hard for you to stay here over next Thursday."

"It's just a sentimental notion," Lisle accused, more to herself than to him. A quick flirt of her free fingers dashed "I've always been back home for Thanksgiving but I've got to learn that there are other places."

"Not now; it will come easier next year when you get more used to the mountains and the ranch is in better shape Jed Stallman said he brought you a letter from home the other day, but you didn't say anything about it, so I figured The check was the more tantalizing out it had made you homesick and you

ey; but Lisle slowly put both it and the ceitful cheerfulness, "T'll open up some letter back into the envelope. With a of your fine jars and get up a Thanks-last glance out at the storm, whose soft giving dinner that would make your hair

Lise laughed at the picture but said and go before the Easter flowers would firmly, "I couldn't think of using this blossom on the mountain slopes and the money, Rob," then added suddenly, unlittle creek again sing near the door, she consciously surrendering, "I don't need to."

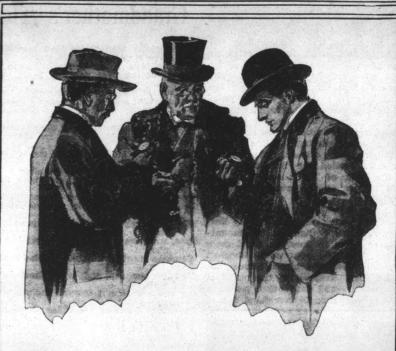
When she had told him about the check it was with empty hands; the battle was hidden away in her trunk his heart shone over. If her lashes drooped a little heav- out from his eyes, though he railed lightily, the corners of her mouth did not. ly, "and you'd let me be a selfish brute "Rob couldn't possibly leave the stock and force me to be a villain like that,

Lisle laughed at the picture but said could spare the money, and I know he her objections, and presently they were needs all of that for winter. N-o," she planning and packing, and she was to

Rob went with her to Pinos Junction never do to go and leave him here alone." where passengers exchange the discom-They had been married a little more forts of the stage for the questionable than a year but this would be their first comforts of the narrow-gauge spur that Thanksgiving alone together; last year climbs across the Divide to the main line.

The catch tightened when she saw him teachers and a whole year there pretty on the platform, his shoulders drooping a little, though he smiled and waved his hand; but when the valley was really beplenished her fire and began to prepare hind her and the engine puffing up slopes supper for the hungry young man who and through snowsheds, she swallowed was now making his stock comfortable hard, closed her eyes and let her mind for the night. She gave a little extra go on ahead to that older home and the

When morning came she pushed up her with a wide path of gold leading straight Then Robert Vernon came in and saw across them to the heart of the sun just the cozy home picture with glad, thank- showing above their rim. Lisle's tired



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ticket attached.

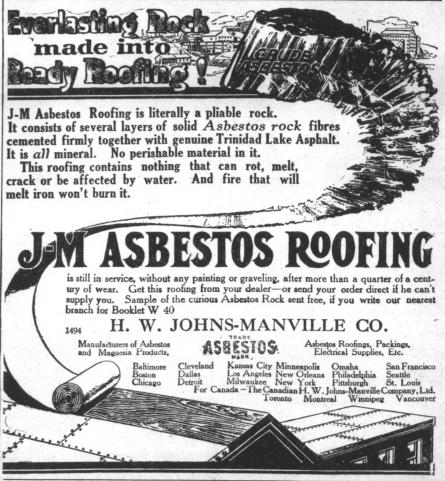
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### THE MICHIGAN FARMER.

### Grandmother's Thanksgiving—By E. L. K. W.

eyes smiled a little when her mind began to quote absurdly, "And broad is the path—" but she paced the platform awhile after the train pulled into the union depot at Denver, and the crisp air did her good.

while after the train pulled into the nion depot at Denver, and the crisp air have I,

Many bright scenes, in fond memories, have I,

Many of days in my childhood, gone by;

There were crowds of people but she as more alone than when among the ras and after a little she walked reso
of the bright scenes, in fond memories, vade;

Ample provisions were made for us all;

Soon at the table we answered the call;

Gathered around, each with appetite keen,

Of the bright scenes in fond memories, vade;

Ample provisions were made for us all;

Soon at the table we answered the call;

Gathered around, each with appetite keen,

Of the bright scenes in fond memories, vade;

Ample provisions were made for us all;

Soon at the table we answered the call;

Gathered around, each with appetite keen,

Of the bright scenes in fond memories, vade;

Ample provisions were made for us all;

Soon at the table we answered the call;

Gathered around, each with appetite keen,

One stands pre-eminent over them all—seen. was more alone than when among the firs and after a little she walked resolutely in, inquired about a train, checked her hand baggage, then pushed through the swinging doors and across the court to 17th street. Ignoring the line of cabs importuning drivers, she walked Father and mother, with sweet baby briskly, headed for the big stores, the pink of her cheeks and the rkle of her eyes coming back glorally.

Speeding along over new-fallen snow.

Seeding along over new-fallen snow.

Seeding along over new-fallen snow.

Sleighbells rang out in a sweet merry the pink of the pi on briskly, headed for the big stores, with the pink of her cheeks and the sparkle of her eyes coming back gloriously.

.The hours slipped by. When she crept up from the plains, stretching away lim-while the gay horses stepped proudly in itlessly, and the twilight of the mountitlessly, and the twilight of the mountains came down to meet it, a telegram went east but Lisle went west. She had not rested much the night before, but the mountains-and that other peace.

"Just ran down to Denver for a day of



"This little pig went to market."

shopping and some Thanksgiving goodshe explained to an acquaintance on the platform at Pinos Junction when exposure, and this leads many persons Do not develop plates while they are she stepped from the train. "No, Mr. Vernon was not expecting me today so I'll have to go out with Mr. Samuels; snow. They then, in order to try to bring er should not be lower than 65 degs. in and if he doesn't hurry," she turned to out detail in the dark figures, force the cold weather; 70 degs, or even 75 degs. the driver with a smile before stepping development of into the stage, "I shall not get home in plate or film, and as a time to finish up my baking." consequence, lose all

"Oh, I'll hurry, ma'am," the old driver quality in the snow and chuckled, "What's lackin' in style's always made up in drivin'." quality in the snow and usually fail to save the detail of the darker

Lisle laughed-it was easy to laugh now-thinking the driving must have it is necessary that quite a balance.

At last, after fifteen interminable miles, the snug little home among the firs came in sight. Lisle leaned forward and saw instance, tree trunks, a thin curl of smoke winding upward. evergreens, or figures in

"Would you mind driving a little slower so 'we won't make quite so much noise, Mr. Samuels?" she begged. "I think Rob is starting supper and I'd like to surprise him."

'Sure not, ma'am," reining the leaders in sharply. Then his blue eyes used, therefore it is twinkled on her for an instant. "Guess well to use isochromatic you won't be none the less welcome for bein' a surprise."

Lisle paused at the closed door, lips parted, breath coming a little quickly; then a stove lid crashed and she turned the knob unheard.

Her glance swept the room and rested on the tired looking figure by the stove; then her voice tried to cry merrily, "Flapjacks for supper, Rob! It's a mercy I didn't stay away longer, you'd have rapidly moving objects. ruined your digestion."

The tired figure, rested, turned. "Lisle?" then again, when he had her hands, "Lisle!"

Dreams of the past now and fill, Causing its pulses with pleasure to thrill. Of the bright scenes that today I recall, One stands pre-eminent over them all—Tis of our family, gliding away, Going to Grandmother's, Thanksgiving Still, none with this could by me be compared.

Sure, were we all, with the short journey o'er,
Welcome awaited at Grandmother's door.

now she slept, wrapped in the peace of Clad in her cap and white kerchief to wait.

Oft she peered out toward the road and Time rolls along and we now have grown the gate;
Faithfully watched, till at length we were 'Tis our own grandchildren now he be-

As 'long the highway our prancing team Coming to celebrate Thanksgiving Day hied;

Welcomed she all in a loving ambrace.

Here with their grandparents, furrowed

As 'long the highway our prancing team hied;
Welcomed she all in a loving embrace,
Ushered us into her warm cozy place
Where we were greeted by other friends,
dear,
Wont to assemble, this day of each year.

Out from the cookroom, where viands were made,

Coming to celebrate Thanksgiving Day
Here with their grandparents, furrowed and gray;
And, as in praises and thanks we would bow,
Memories awake, and I mentally vow:
Thanksgiving Day, to these children, shall be
What my Grandmother's once was to me.

right,
Tactful, admonished in sweet gentle
way,
Or, to instruct, often joined in their play;
Many bright days have I spent on her farm:

Plain though her home, it for me held a charm,
And, in my dreams, I still ride in the sleigh, Going to Day. Grandmother's, Thanksgiving

hold,

the darker objects at some distance from

the camera, the photograph is made with

the idea of showing the snow, and a very short exposure will be needed,

shorter than for a summer landscape,

whereas if the darker objects were to be

outdoors for some little time before us-

trying to fight back the tears, "letting When the subject is mainly snow, with me be so selfish."

"Why, little girl, it was all right."
"It 'wasn't, but it is'," Lisle corrected, drawing back a little to look up in his face, and going on impressively with "There's a fur coat comshining eyes. ing for you, Rob, and a great, wide, lux-considered, the exposure would be apurious couch for that corner," pointing proximately the same. It is frequently to a space between sunset and firelight, advisable to break up the dead white of "and—a—real—pumpkin—for pies! I found some big sweet ones in Denver."

Then she whispered longingly, "If we just the right amount of shadow. could only have both gone, Rob, but-" there was a sharp catch in the soft voice -it wouldn't be Thanksgiving-anywhere -without you."

"Next year, sweetheart," and Rob held her close, "we'll make it come that way. This is a good world, after all."

Lisle's face lifted. "And there will be

Thanksgiving in the mountains, as well as on the plains."

### USING THE CAMERA IN WINTER.

BY FRANK H. SWEET.

Not many families these days are without a camera, owned by one of its mem- before making an exposure and, when bers. There are few subjects that appeal doing so, avoid breathing on it. Don't more strongly to the amateur photogra- dust plates with a hair duster in a very pher than winter scenes. Snow, being cold place as it will cause them to atwhite, or nearly so, requires very short tract the dust. into trouble when they may be trying to chilled as it is difficult to produce good photograph people or other objects in the results. The temperature of the develop-

the objects. To avoid this the exposure should be made with reference to the darker objects. For dark clothes require a comparatively full exposure. This would probably mean overexposure of the snow if ordinary plates were plates, and still better pictures will be obtained if a ray filter or color screen is used with these plates. In any event, it is best to use a rather weak developer, especially in the case of under exposure, as when photographing when the exposure may be cut down to a small

What alls the boys? Are they taking a nap? No; they're waiting to hear the kodak snap.

fraction of a second. Winter pictures may be said to require is better. Do not develop with the idea

"Yes, it is not my ghost," but the lips just about the same exposure as would of securing over-strong contrasts, for that tried to laugh, trembled, and she be needed in summer, for though the they are not at all desirable; aim rather buried her face on his shoulder. "Oh, snow reflects a great deal of light this for delicacy and softness. One point that buried her face on his shoulder. "Oh, snow reflects a great deal of light this for delicacy and softness. One point that Rob." she cried, "why did you let me do is counterbalanced by the fact that the should be understood in the relation between exposure and development is the it? It is half your fault," she scolded, sun, being lower, is far less powerful. tween exposure and development is the J. H. Seymour 487 W. Eight St., Topeka, K.

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"I discovered long ago that the very bulkiness of the ordinary diet was not calculated to give one a clear head, the power of sustained, accurate thinking. I always felt heavy and sluggish in mind as well as body after eating the ordinary meal, which diverted the blood from the brain to the digestive apparatus.

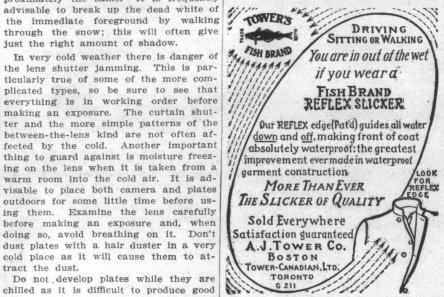
"I tried foods easy of digestion, but found them usually deficient in nutriment. I experimented with many breakfast foods and they, too, proved unsatisfactory, till I reached Grape-Nuts. And

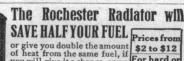
then the problem was solved.
"Grape-Nuts agreed with me perfectly from the beginning, satisfying my hunger and supplying the nutriment that so many other prepared foods lack.

"I had not been using it very long before I found that I was turning out an unusual quantity and quality of work. ontinued use has demonstrated to my entire satisfaction that Grape-Nuts food Continued use has demonstrated to my brain and nervous system of the hard working public writer." Name given by Postum Co., Battle Crek, Mich.

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reasonably far.

act quickly.

toil.

contrast existing in the original subject.

For instance, a dark tree trunk against

a brightly lighted sky, with dazzling white snow, would require somewhat dif-

ferent quality of negative than would

be wanted if the subject were a snow

storm; in the one case the plate would

develop with a snappy brilliancy (which

must not be allowed to reach too great

a degree of density) while the other

would appear extremely flat. Do not be

be obtained while the sun is low, the

exquisite effects. In order to secure them

so that when they occur there is no time for fussing with loading plate holders,

searching for tripods and other parts of

AROUND-THE-WORLD HARVEST

TIME.

BY W. J. GRAND.

While enjoying your winter fire, per-

haps discussing your Thanksgiving din-

ner and recounting the manifold blessings

which have been yours during the busy

season now drawing to a close, did it

ever occur to you that at that very moment the harvester is at work in some part of the world? That while one is

resting another is bringing forth fruit?

Taking the months in their order, we

find that January sees harvest ended in

most districts in Australia and New Zea-

land, while the people of Chili and other

just beginning to reap the fruits of their

vesting operations in Syria, Cyprus, on the coats of Egypt, in Mexico, Cuba, Per-

Persia, Algeria, Morocco, southern Tex-

southern France, Greece, and Sicily.

July sees harvest in England, Nebras-

besides several unnamed northern states

Holland, Manitoba, lower Canada, Den-

October is the harvest month for corn

Northern Sweden, Norway and Ireland.

South Africa, Patagonia, and South Aus-

the fields of Argentine Republic, Para-

as, Florida, China, and Japan.

through these months.

sia, and Asia Minor.

in our own country.

mark, and Russia.

northern Australia.

Sea

tralia.

THE BACHELOR UNCLE.

(Continued from page 464). with a little sigh: "I do wish Teddy Roosevelt had seen me."

At that moment I felt a tug at my elbow, and, looking down, saw Ellen's tearstained face gazing up into mine. "Comfort me, too, Uncle John," she said.

"Now, tell me how it all happened," I asked, as I picked Ellen up in my arms and proceeded to "comfort" her.

deceived by this, but carry development "When I woke up I thought I would explore the country," Teddy began, For landscape work the best effects can 'cause the country is new to me. So I got my gun, and sword, and pistol; and morning light being much better than Ellen woke up and came with me, 'cause that of the afternoon, when there is apt to be a lack of "atmosphere." The early the country is new to her, too, and she morning mists of winter offer the most wore red, 'cause she was going to be a gipsy, and we were going to camp out just like gipsies after we had done some it is well to have the camera constantly exploring. First we came to a high ready, for the best effects are transient, fence, and I boosted Ellen over, and climbed over myself. Then we started toward a great house with big doors in it and almost no windows-" the outfit. Be ready, be up early, and

"And I saw some dear little chickies running on the ground," broke in Ellen; "and I tried to catch one and their mamma tried to bite me, and then a great big hissing old thing stretched out its neck, and flapped its wings, and ran at me, and something big said, 'Gobble! gobble!' awful loud right near me, and made a fan of its tail, and got red in the face, and scratched its wings on the ground, and ran at me; and then 'most a thousand other big birds got mad and all ran at me, flapping their wings and stretching out their necks and making the most awful noises; and-oh, Uncle John, wasn't Teddy brave? I guess I'd be in Heaven now if it wasn't for Teddy, and I want to hug him," and she clambered out of my lap and threw her arms around her brother's neck.

countries of southern South America are "Don't be a baby, Ellen," Teddy said, breaking away and running to the house. In February and March upper Egypt I picked up the turkey gobbler and foland India begin and continue harvest lowed, with Ellen clinging to my hand, thankful that it was only a dead turkey April enlarges the number with har-

After breakfast I left the children in charge of Mary Jane, and went to a distant field to cultivate corn. As I rode back and forth through the long rows May is a busy time in central Asia, the innocent words of Ellen, "Uncle John, you ought to be married," kept recurring June calls forth the harvesters in Cal- to me.

ifornia, Oregon, the southern United Alas, how her words made my heart States, Spain, Portugal, Italy, Hungary, ache! And yet it was now two years Roumania, Turkey, the Danubian states, since that Sunday afternoon when Elsie had met me at her door and said: "Mr. Delvin, the man I wed must be a gentleka, Switzerland, Iowa, Illinois, Indiana, man. You are not. Take back your ring Minnesota, upper Canada, northern and presents. Good day, sir," and then France, Germany, Austria, and Poland, without another word, she had handed me back the engagement ring I had been so happy and proud to place on her August continues the gathering in the finger and all my love-presents, and had British Isles, France, Germany, Belgium, shut the door in my face.

The old pain was at my heart anew today, for the innocent prattle of little September rules northern Scotland, southern parts of Sweden and Norway, Ellen last night and the words of Mary Jane had opened the wound afresh; and as well as the cold islands of the North the old questions were again troubling me. Why had Elsie dismissed me so peremptorily, so scornfully? Why had in America and for hardy vegetables in she refused to give me any reasons for her actions, and declined to see me or In November harvest time begins in receive any communications from me. I could not understand it. I only knew that someone, somehow, wrongfully had December ends the year by ripening convinced Elsie of my utter unworthiness. But how, and why, and who? If I could but lay my hands on the wretch would drag him to the feet of Elsie and choke the truth out from between his cowardly lips. I would prove to her that I was worthy of her love, and then the poignant bitterness of the thought that she believed me base at least would be

What a marvelous thing love is! Here Grappling with anguish while death hov- was I, a man six feet and five inches in my stockings, weighing some two hunpounds and muscled like an ox; and yet love made me tremble at the thought of a slip of a girl, who had scorned me and spoken words to me that no man living could have spoken without a blow; and still, despite this scorning, I even now, would esteem it a joy to give my life for her good. I knew that this love was noble and ennobling; yet I locked it in my bosom, as if it was vile, Longing for sight of some dear absent and trembled lest the hand of a friend should find the key.

And Elsie-I knew she had loved me, place; And Elsie—I knew she had loved me, Grieving o'er errors that love can't erase, I had read the sweet truth in her eyes and acts a thousand times. I knew that

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seve the trouble and expense of sending each order set and the control of the 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 the 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 Farmer and Detroit Semi-Weekly Journal for Sl.60. If, for instance, McCall's Magazine also is wanted add it at 400 making total \$2.00 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 \$1.05 to the second column price. For the Michigan Farmer 5 years add \$1.75. We do not send samples of other papers. Address the publishers direct.

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### guay, the southern part of Chili and WHAT IT MEANS TO BE MOTHER.

BY FLOY SCHOONMAKER, ARMSTRONG.

Hoping and planning for something so she be dear;
Yearning and praying in wonder and Wh fear;

ers near, That's what it means to be mother.

Feeling the pressure of soft baby hands; Finding rare pleasure in duty's demands; Knowing the rapture of love's closest bands, That's what it means to be mother.

Guarding and guiding and teaching alway; Following ever where willful ones stray; Coming to places where one can but pray, That's what it means to be mother.

Gazing thro' tears at some long vacant

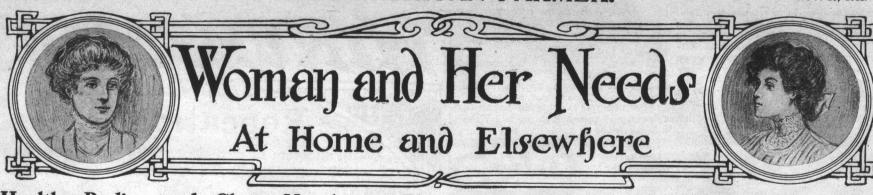
long; had been a woeful blow to her; and yet Hearing, at twilight, the thanksgiving —what could it all mean? I asked my-

Leaning, at last, on one's own who are self again, as I had a thousand times strong.

That's what it means to be mother.

(To be continued).

and acts a thousand times. I knew that Waiting and watching-no matter how the shock of my apparent unworthiness had been a woeful blow to her; and yet



### Healthy Bodies and Clean Morals are The day and brought on a backache, or that apples and grapes add much to the effect she had eaten a bit of that "soggy" of such an assortment of fruit and a Rule in The Country.

"City or Country for Our Children," the in the state where such conditions exist. question has been brought very forcibly to our attention by the letter from "Dis-The Farmer of November 11. Serious charges were made by the writer, charges that country children know nothcity youths; that they are not so strong, not. because they are poorly fed and do not exercise, and, most important of all, that their morals are not so good.

A few years ago I was a country school teacher, and for five years I taught country girls and boys. And, although I was high school graduate and had read several nature books, I learned more from what those children told me about nature than I had ever learned in any school. Theoretically I was perhaps better informed than the children on some subjects, but turn me loose in the woods and I didn't know where to look for one of the flowers I could analyze with the aid of a huge botany. The children, on the contrary, knew just where to look for every flower, they knew which ones liked the moist dark dells and which preferred the sunshine. They knew the haunts of birds and fourfooted creatures, rabbits, squirrels and chipmunks. They knew, too, the habits of all their furry friends and brought things to my attention that I had not learned in books. "Flight of fowl and habitude of the tenants of the wood," these boys and girls knew because they had grown up amongst them.
I never noticed that they lacked exer-

cise, either. Walks of from half a mile to two miles to school, preceded and followed morning and night and numerous 'chores' for the boys and housework for the girls made sturdy muscles and clear brains. And at school there was baseball, wrestling, tag, coasting in winter and all sorts of sports to quicken the blood and fill the lungs with pure air. To be sure, there were no dumbell exercises Indian clubs nor trapeze performances, but carrying wood and water did very well for arm strengtheners and climbing fruit and nut trees to shake down their load, not to mention clambering all over the hay mow for eggs, was a fairly good substitute for horizontal bar gymnastics.

As I remember the dinner pails, too, the food was quite eatable. Indeed, I've often sighed for a return to it since I have lived in the city and eaten foods made of candled eggs and imitation butter. A bit of the fried chicken I used to see in some of those dinner pails would be a most welcome exchange for the tough drumsticks I now nibble. The children don't look starved, or anemic. I can't recall a single gray, pinched face such as city teachers look into daily. There were plenty of rosy cheeks and bright eyes and I can not remember that a single child ever had indigestion.

Their morals, too, weren't in such a shocking state as "Disillusioned Mother says she finds them. Every day we spent 15 minutes committing to memory some "memory gem," and the children were even more eager to learn them than I was to teach them. The mothers without exception, were earnest, conscientious women, anxious to bring their children up well and as a rule their efforts were crowned with success. If the children had any vicious habits, they kept them carefully hidden and neither parents nor teachers ever found any great wrong.

For five years I worked with country children, and I think I ought to know them as well as "Disillusioned Mother," who has lived in the country a year, evidently with the "I-am-holier-thanthou" attitude. Besides, conditions have steadily improved since my day. If she has really found things as she says, I am positive that there is no other spot

believe, however, that she is mistaken. I am inclined to think she belongs to which appeared in that class of people who judge everyone in the neighborhood by a single example. She may have run across a single bad boy, and jumped to the conclusion that ing at all about nature as compared to the rest were all like him. But they are

Every once in a while some writer seizes his pen and dashes off a burning article to prove the superiority of the city over the country. He proves to his own satisfaction that city bred lads are the superior in every way. But the country boy still goes on picking up the larger share of the positions of trust in the country. He may not know so much are talking of their favorite actor or actress, the batting average of the different give them. He is honest, straightforing his observations.

ten. The charitable view of the thing is issues that those who see these columns to conclude that she had overworked that may read the opinions of others.

though, I am glad she wrote the letter if it relieved her, for it has been a pleasure to me to dispute her statements. us to see ourselves through others eyes, even if those eyes are crooked. We are so apt to grow egotistical if someone is always patting us on the back.

DEBORAH.

Editorial Note.—The article entitled "Back to the City," which appeared in our November 11 issue, had been in the office for several weeks and the question of its use was considered for some time. We finally decided to publish it upon the ground that the readers of the Woman's Pages have seldom had the question of about some things as the city lad. He rural conditions as compared with urban is often silent when others around him conditions, presented from the other side. We must confess that the attitude of "The Disillusioned Mother" had none of baseball players, or the time made by the our sympathy, in-so-far as her views of swiftest race horse. But he knows how country conditions were concerned, and to work, how to take orders and how to the large number of replies to her letter received at the office has confirmed our ward and of clean habits, and as a rule contention that the environment of rural is a much deeper student of human na- surroundings is the greatest argument ture than the city bred young man. Hav- among many others for living on the ing known but few people in his earlier farm, and in that environment there are years he has acquired the habit of study- nurtured the men and the women who ing each new acquaintance and of stor- constitute the backbone of our civilization. We regret that we lack space for the believe "Disillusioned Mother" will publication of all the answers made to admit her mistake when she sits down the article in question, but we shall seand thinks over just what she has writ- lect a few and print them in succeeding

of such an assortment of fruit and a bread she decried and was suffering from large bow of ribbon tied to the handle indigestion. When she is in her right completes the attempt, rendering the mind, I am sure she will see she has effect desired better than could have been greatly overstated matters. On the whole, achieved by spending three times the amount at a florist's. Sprigs of wheat may be tucked here and there between the fruit, softening the lines. Besides, it is not a bad thing for any of sheaves of wheat may be made up and set by each plate or be tucked into each napkin. Lay the table without side dishes, using very large dinner plates in their stead and thus avoid the overcrowded look that takes away the appetite before the meal has hardly begun.

There are so many courses included the Thanksgiving fare that it is best to cook all dishes very simply, being careful that the food is well done and well seasoned with salt and pepper.

No better menu could be planned than the following:

Oyster Soup Roast Turkey with Chestnut Stuffing Cranberry Jelly

Boiled Fish with Drawn Butter Egg Sauce Boiled Potatoes

Browned Sweet Potatoes Lettuce Salad with French Dressing Mince Pie Pumpkin Pie Cheese Straws

Fruit Black Coffee Roast Turkey.—Dress and clean thoroughly a ten-pound turkey. Place on its side on a rack in a dripping pan, rub the entire surface with salt, and spread the breast, legs and wings with one-third cup each of flour and butter rubbed together. Dredge the bottom of the pan with flour. Place in a hot oven, and when flour on turkey begins to brown, reduce the heat, baste with drippings in the pan and add a pint of boiling water. Continue basting every twenty minutes until the turkey is tender, which will require about three hours. For basting, use one-half cup of butter melted in onehalf cup of boiling water. During the cooking turn the turkey often that it may brown evenly. Remove string and skewers before serving. Garnish with celery tips.

Chestnut Stuffing.-One and one-half pints French chestnuts, one-half cup of butter, one teaspoon salt, one-eighth teaspoon pepper, one-fourth cup cream, one cup cracker crumbs.

Shell and blanch the chestnuts. in boiling salted water until soft. Drain sauce, pumpkin pie, mince pie, plum pud- and put through a potato ricer. Add onethe butter, salt, pepper and cream. Melt remaining butter, mix with cracker crumbs, then combine the mixtures.

Oyster Soup.—Pour a quart of cold water over a pint of oysters, drain A pretty decoration for the center of through a colander. Put the water drained from the oysters in a saucepan. Simyearly routine. Families, long separated, ing or white enameling it and filling it the scum. Add to the broth in the saucegather about the Thanksgiving table and with a variety of ripe fruit. Red-cheeked Pan 'one tablespoon each of butter and flour stirred to a paste. Cook three minutes, or until smooth, stirring meanwhite. Then add half a cup of cream, and season to taste with salt and pepper. When the soup boils, add the drained oysters, and as soon as it again boils and the edges of the oysters curl and sep-arate, remove from the fire and serve.

Boiled Fish.-Dredge the prepared fish with flour. Wrap it in a cloth. Put in a steamer or in boiling water. When done, take from the kettle, drain, place upon a hot platter, remove the cloth, garnish with lemon points and sprigs of parsley and serve with drawn butter egg sauce. A medium-sized fish will boil in half an hour, and when sufficiently cooked will flake and separate easily.

Drawn Butter Egg Sauce.-Cook together until well mixed, a tablespoon each of butter and flour. Add a cup of the water in which the fish boiled. Simmer five minutes, season highly with salt and mildly with pepper and serve in a tureen in which have been placed half a dozen slices of hard-boiled egg.

Cranberry Jelly .- To a quart of cranberries add three-fourths of a pint of boiling water. Cover closely and cook five minutes over a quick fire. Crush with a wooden spoon such of the berries

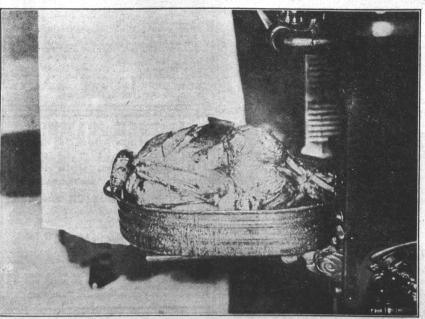
### Preparation Of The Thanksgiving Dinner.

By Mrs. Mary E. Underwood.

HE little motto which begins with the words, "Live, Laugh and some of those less fortunate. Love," is a good motto to follow, Although there are many and especially so on the day of Thanksgiving. Although every day of the year should witness a thankful spirit, still it improve upon the good cheer aroused at is a sweet custom that sets one day apart the festive board. Custom has made it on which not only to feel inward grati- very easy for the hostess to arrange a tude but a day, the hours of which may suitable menu, for turkey, cranberry be given up to deeds that render those about us happy and glad that they are ding, nuts and raisins are important feanot insensible to life and love. The ob- tures of the dinner and have been so servance of this day also serves to remind ever since our dear old grandmothers many of us (who grow careless in our entertained over these delicious viands appreciation of blessings as our natural prepared in their spacious brick ovens. due), how much we have for which to be A pretty decoration for the center of through a colander. Put the wal thankful. It is one of the sweet notes the table may be fashioned with a straw ed from the oysters in a saucep that is almost universally sounded in our basket of graceful design by either gild-

vacant chairs are filled by strangers or

Although there are many ways of extending hospitality at this season, yet it is most difficult, in fact, impossible, to



The Turkey Ready for the Oven.

colander. Put the strained pulp into the saucepan in which the berries were cook- flavor with lemon juice and grated rind; ulated sugar and simmer five minutes, cream, and over this spread the beaten stirring constantly.

Browned Sweet Potatoes.-Boil the potatoes until they can be pierced with a color. fork, but not until tender. Remove the skins, dust lightly with sugar, roll in melted butter and brown in the oven.

French Dressing.-To two tablespoons of sharp vinegar, add salt until the salt is as plain to the taste as the vinegar; if liked, white or red pepper may also be added to taste. Add to the seasoned vinegar six tablespoons of olive oil and sprinkle the mixture over the prepared lettuce in the salad bowl. Carefully turn the lettuce over in the bowl and serve on cold plates.

Cheese Straws.-Roll pie-crust dough the same thickness as for pies. Cut in strips from six to ten inches wide and cut the strips into straws or sticks a quarter of an inch in width. Lay upon baking sheets, leaving a space between the straws a third the width of the straws. Grate rich cheese, season to taste with salt and red pepper and scatter thickly over the straws and the spaces between them. Put in the oven where the greatest heat will be at the top and bake ten or fifteen minutes. Cut the cheese in the center of the spaces between the straws, remove from the baking sheet with a flexible knife and pile tastily on a plate.

Black coffee or coffee with cream, if desired, may be served, as may also tea must not be forgotten. The quantities cient to serve a company of six or eight all are as yet educated in this respect. persons

This is for the upper her. cup of butter. crust. The other half for the under with flour. This flour can be used for gravies, etc. Of course, the paper is to any insinuation that it was not properly be removed before filling the pie for the cared for. final baking. This will make four medium pies, both upper and under crust. better for ordinary use.

boiled meat chopped fine, nine pounds of as she did, with no bad results. apples chopped fine, one and a half five teaspoons of ground mace, one tea- which to masticate it. spoon of ground black pepper, six table- Another grave error in child manage-spoons of salt, one quart of cider and ment of the past consisted in feeding make the pies.

ples. Cut the quarters in two and fill a overloaded stomach. deep pie plate. If the apples are quite gether to keep in the juice. Bake in a moderate oven from half to three-quarting the solution, for each eye.

The charge that loss of sight is some-

then remove it from the fire to stir in indicate.

as have not burst and rub through a the yolks and sugar; return it for a minute to set the eggs; again remove it and Add three-fourths of a pint of gran- when the crusts are done, spread over white of the eggs sweetened and flavored. Put it into the oven a few minutes to

Pumpkin Pie.-To make one pie, rub through a sieve cooked pumpkin enough to make two cupfuls. To this add a small cup of sugar, a saltspoon of salt, one teaspoon of cinnamon and one of ginger and a pint of hot milk and mix thoroughly. When cold stir in two wellbeaten eggs and fill a pie plate that has been lined with good rich paste. It will require three-quarters of an hour to

Apple Pie with Pineapple.-Bake an apple pie in the usual way, but without sweetening. While it is baking take three teaspoons of grated pineapple, one tablespoon of water, three of sugar and simmer together until the fruit looks clear. When the pie is taken from the oven, spread the pineapple over the apple, replace the cover and set the pie away to cool. The pineapple mixture furnishes the sweetening.

### IGNORANT MOTHERS, DISEASED CHILDREN.

BY ELLA E. ROCKWOOD.

To the mother can many times be traced the unhealthy condition of her Careless methods concerning cleanliness and food are responsible for much of the disease found among infants, of any kind. As bread and butter are so physicians assert. Time was when considered essential at every mean they mothers allowed nursing babes to sit at are omitted from our bill of fare, but the table and fed them whatever food was served for the family meal. Now called for in the recipes given are suffi- most parents know better, although not

Not long ago a young mother traveling Pie Crust.-One-half cup of lard and in the same conveyance with the writer, one-half cup of butter. Work into three although a perfect stranger, sought adcups of flour. Moisten with cold water. vice concerning her six-months-old babe, Take half the quantity, roll to an inch in which was pale and anemic, undersized thickness, cover with small bits of but- and showing every symptom of lack of ter, then form the whole into a roll. thrift. Inquiry brought out the fact that With a rolling pin applied crosswise the although the mother nursed the child, it roll, flatten it, and cover again with bits was permitted to eat potatoes, bread, of butter. Repeat this operation three cake, even meat, which the parent astimes, using in all about a quarter of a sured me she took pains to "cut fine" for

As a final confession she related how crust needs to be rolled but once, and the child had cried for sauerkraut a few very thin for the pan. If to be filled days before and was not denied. The with custard, squash, lemon or cream, little one was in such a condition that bake the under crust first. To keep it its very life was apparently threatened smooth on the pan cut a piece of paper by the mismanagement of the mother the size of the crust and partly fill it who loved it as all mothers love their children, and who would have resented

When told that a child should have no solid food for the first year of its life at This is much cheaper than puff paste and the very least, this woman appeared surprised and gave numerous examples as Mince Pie.-Four pounds of lean cold showing that other mothers were doing

Contrast this child's condition with pounds of suet chopped fine, three pounds that of a baby fed only on milk, or a of raisins, two pounds of currants, half milk substitute, and note the difference. a pound of citron sliced fine, five pounds Any thinking person should know that of sugar, three teaspoons of ground- an infant is not able to digest solid food cloves, ten teaspoons of ground cinnamon, until nature has supplied teeth with

vinegar mixed with one quart of molas-ses. Mix all and add the juice and grat-Nothing could be worse than perpetually ed rind of two lemons; or, instead of stuffing its stomach to keep it quiet. cider, vinegar and molasses, one quart Regular two-hour intervals at first, of sherry and one pint of brandy may be changing to three hours after a few substituted. Keep this mincemeat in months, gradually placing the meal times stone jars; add a little more liquor, if it further apart, is a much better rule and should become too dry, when about to a sensible one to follow. Baby is not always hungry when he cries, and fre-Apple Pie.—Quarter and pare eight ap- quently may cry from the effects of an

The number of children made incurably sour use two-thirds of a cup of granu- blind from neglect of the eyes, is astonlated sugar; if only moderately so, half ishing, so we are told by physicians. a cup. Add one teaspoon of cinnamon. Greatest care should be exercised in this Roll the under crust very thin. The up- respect and the eyes be kept scrupulously per crust should be punctured for the clean and free from exudations. Careescape of steam. After moistening the ful mothers insist upon cleansing the under crust around the edges fold the eyes every morning after the bath, in a upper crust under it and press them to- soltuion of boracic acid, using a little gether to keep in the juice. Bake in a wad of sterilized absorbent cotton wet

Lemon Pie.—Four eggs, four table- times traceable to a mother's neglect is spoons of sugar, two-thirds of a cup of a horrible one to contemplate, yet the flour, nearly a quart of milk, two small fact is undisputably true in hundreds of lemons, a little salt. Bake two under cases known to the medical fraternity. crusts. Mix the egg yolks and sugar well Great advancement in the care of chiltogether. Bring the milk to the boiling dren has already been made and the point, then add the flour mixed with number of uninformed parents is annually some of the milk to prevent lumping, decreasing. But that there are still some Stir it until it has thickened and cooked, of these left many instances seem to



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### PRACTICAL SCIENCE.

AMOUNT OF PLANT FOOD IN THE the life of the soil, which is speedily ex-SOIL

BY FLOYD W. ROBISON.

If we were to calculate the amount of plant food removed from the soil by crops and, taking this factor as a basis for calculation, were to estimate the length of time it would take to exhaust the soil of its so-called plant food, we would be surprised to learn how practically inexhaustible the soil is. Now then, when we take into consideration, besides this factor, that in the modern system of farming much or perhaps the most of the plant food removed in the crop is subsequently returned to the soil through the medium of farmyard manure, we will then observe that to exhaust the soil on such a basis is well nigh an impossibility.

It is well for us to dwell upon this point for a moment in order that we may more fully appreciate the wonders of the scheme of plant growth. On the above basis, King has calculated that in the first surface foot of an acre of land there exists 3.7 tons of potash, 1.88 tons of lime and 1.9 tons of phosphoric acid. He states that clover hay demands for its production per ton, 39 pounds of potash, 38 pounds of lime and 11 pounds of phosphoric acid. He determined this factor by an analysis of the plant at maturity. In plainer language, he found, upon analysis of the clover plant per ton, the various quantities mentioned last above. Assuming that these amounts represented the demand of the plant upon the soil, King calculated that there was enough potash in the soil to last 1,521 years; that there was enough lime in the soil to last houses. over 4,000 years; and enough phosphoric made the basis for the condemnation of acid to last 500 years. If these statements were exactly true, and they are, of course, mathematically correct, so far as the problem is stated, we would not be out exception to spend considerable time able to persuade farmers to fertilize, essufficient reason therefor. Almost withpecially with commercial fertilizers, with a great deal of success.

knows, for example, that he cannot produce a maximum crop through a succession of years without resorting to the use of manures and fertilizers. Against this lished what became the famous "Bulletheory again we have the well known tin 22, Bureau of Soils," wherein it was fact of the practical exhaustion of soils all about us. We have the exhaustion sufficient nourishment for the production of the soils of the European countries of a maximum crop. Indeed, this stateand, at later date, the exhaustion of the abandoned farms in the New England states, abandoned because a maximum crop could not be produced on the soils which had been undergoing ruinous cropping for a number of years. We Rothamstead soils in England, of Lawes and Gilbert, demonstrating, it is true, that where fertilizers were not applied a crop could be produced through a series of years, but demonstrating with equal truth and equal certainty that the use of artificial manures made possible the continual production, year after year, of a maximum crop.

units is capable of producing such a startling effect in the way of plant growth? It seems to us that one thing is to produce a single gram of starch, or development. a single gram of sugar, or oil, without the isting in the soil, a nourishing medium, face of the apparently tremendous quan-

hausted of its most favorable balance and when so exhausted the results show plainly in the growth of the plants, the results with which all farmers are familiar.

Likewise with the clover plant; as King truthfully states, an analysis of this plant at maturity will show, in one ton, 39 pounds of potash, 38 pounds of lime and 11 pounds of phosphoric acid, but to state that these quantities of mineral nutrients represent the demands upon the soil of the ton of growing clover is to strike widely, in our opinion, from the truth. Upon an analysis of the different fertilizing materials we would find that the application of the ordinary quantities of commercial fertilizers and the ordinary quantities of farmyard manures when spread out on the top of the soil, contributes an exceedingly small quantity of mineral nutrient indeed. We know, from practical experience, that the addition of these small quantities is sufficient, under normal conditions, for the production of a maximum crop, but upon analyses of the soil before adding the fertilizer and after adding the fertilizer, it is almost impossible to note the difference. It is apparent that it takes a very small reduction in the soluble contents of the soil to throw the soil water so out of balance as a nutrient medium for plants that its deficiency in mineral nutrients is at once apparent in the growing crop.

Knowing, by analysis, the small amount of plant food nutrients conveyed to the soil in various fertilizers, this fact has been made the basis of the comparison of fertilizers by various commercial More particularly has it been barnyard manure in comparison with commercial fertilizers. This has led experimenters, chemists particularly, withsufficient reason therefor. Almost within proclaiming the merits of barnyard manure, without being able to give a Over against this theory so cleverly out exception they have stated that the worked out there are certain indisputable value of barnyard manure is out of all facts which every farmer knows. He proportion to the amount of various nutrients therein contained. Along a similar line of thought, evidently, was the Bureau of Soils operating when it pubstated that practically all soils contain men must be considered correct if we reason by calculation from the amount of plant food nutrients contained in the crop at maturity. Perhaps we might illustrate this in a slightly different way by taking an example in the animal have the remarkable experiments, on the world. How near the exact truth would we be if we took, as a basis of calculation, the analysis of the animal body at maturity to judge of the demands of that body upon its food supply? Take, for example, a steer weighing 1,000 pounds, consuming every day of its life perhaps 25 or 30 pounds of dry matter. An analysis of the carcass at the time of maturity, say three years old, would reveal If it is impossible to exhaust the soi!, 1,000 pounds of dry matter consisting of why is it that the application of such an albumin, sugar, fat and mineral matter. exceedingly small quantity of plant food Have we any right to assume, because of the fact that this animal body shows only 1,000 pounds of these various food constituents at the age of three years, here very clearly indicated, and that is that the demands of this animal upon its that an analysis of the plant does not food supply have been only to the extent give the true index, or anywhere near a of 1,000 pounds? Again, in this 1,000 true index, of the demands of that plant pounds there may perhaps be 100 pounds upon the soil. As stated previously, we of mineral matter. Have we any right are aware that sugar, starch, oil, and to assume again that this animal utilized, nearly all of the plant food constituents, through its three years of life, only 100 when reduced to the state of absolute pounds of mineral matter? It seems to purity, are practically devoid of mineral us that this is quite absurd. Is it not matter. The exceptions to these are the more nearly correct to say that many albumins, of course, which contain some times this amount was utilized by the phosphorus and various other compounds animal in reaching maturity, and may in which a small amount of mineral mat- we not, with the same logic, say that ter seems to be intimately associated many times the amount of potash, etc., with the organic structure of that body, found in the plant at maturity is used We know, however, that it is impossible by that plant in arriving at its fullest

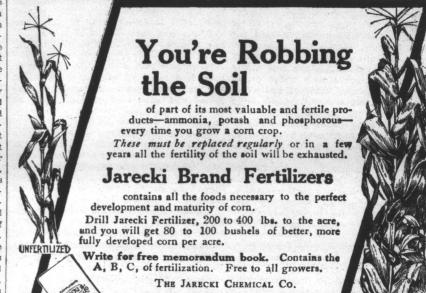
Repeating again, it is evident to us presence of a considerable quantity of the that there is a certain desirable balance various mineral ingredients. Shall we demanded by plants before they will then say that an analysis of the result- reach their most favorable development. ant products of plant growth, sugar, This balance, by successive cropping, is starch, etc., will give us a true index of very easily disturbed, and by the addition the demands of that product upon the of manures and fertilizers, constantly and soil? Is it not far more logical to assume continuously, this favorable balance is that the growth of a plant is caused by a maintained. In no other way is it apcertain concentration of plant food ex- parent to us how we may explain, in the



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OF DAN PATCH

tities of plant food in the soil, why it is that soils under some methods of cultivation and cropping are so speedily ex-

### CITY MILK SUPPLY.

With the increase in population in cities dairymen are paying more attention to the very desirable market which the city affords for milk. Likewise, with the increased attention which public officials individual consumers in cities are paying to the question of sanitation surrounding their food supply, it has become imperative that dairymen supplying cities give greater consideration to the question of the production of clean milk. It has not been a long time since the man who advocated clean clothes, clean cows, and clean hands in the production of milk was considered more or less of a faddist and an impractical man. Habit and custom are strong forces to antagonize, and until recently comparatively few dairy-men realized the duty they owed to the consuming public in the matter of clean

A few not exactly philanthropic concerns, but concerns and individuals of considerable foresight, have attempted to market milk produced under fairly modern conditions of cleanliness and sanitation. The reception which these goods received encouraged other concerns to undertake the same thing and it is now possible, in most of our cities, to secure milk which has been produced under more or less sanitary conditions. Perhaps the greatest impetus given to this movement was given when a certain dairy in the state of New Jersey began the putting out of what has come to be known as "certified milk." Certified milk is milk produced under specified conditions and inspected frequently by a medical milk commissioner or by some other source of authority. The requirements of certified milk are various but are all aimed at the point of securing a clean wholesome pro-One of the general requirements for certified milk is that it shall not contain exceeding 10,000 bacteria per cubic centimenter. When it is realized that even now the major portion of the milk consumed in our cities contains over 100,000 bacteria per cubic centimeter, we will realize what the reduction to 10,000 bacteria per cubic centimeter may mean.

During the last three years the Mich-

igan Dairy and Food Department, under the leadership of Mr. Colon C. Lillie, began devoting considerable time to the improvement of the city milk supply. It was found that, along with the strenuous sanitary campaign under his direction among the creameries and cheese factories in the state, it was as much to the interests of the dairyman who produced milk for consumption in the cities that the quality of his product should be improved as it was to the interests of the creamerymen and dairymen throughout the state that the quality of butter and cheese products should be improved. Incidentally this campaign for clean milk was utilizing the energies of the Dairy and Food Department in the most commandable way in which they could be utilized.

It is the consensus of opinion among officials throughout the United States at the present time that the greatest function of a dairy and food department is in the controlling of the conditions of sanitation under which various food products at the present time are produced and manufactured. Since the inauguration of this campaign many other states have taken the matter up, and many cities as well, and the dairyman is beginning to realize that he cannot afford to produce anything but the highest grade of milk from a sanitary point of view

### LABORATORY REPORT.

Is there anything in the theory that silage is a cause of tuberculosis in animals that use same?

Ottawa Co.

E. W. O.

Tuberculosis in animals, as in human beings, is caused by the active operation of a great number of tubercle bacilli. We are sure that any condition which may cause ill health in an animal is conducive to the development of such a specific disease as tuberculosis. As far, however, as the statement that ensilage may be provocative of such a condition, we are again quite certain that there is no foundation, as a matter of fact, for such theory. Ensilage, or corn silage, is one of the very best feeds which the dairyman and feeder has to supplement the dry ration. It is wholesome and nourishing, and when properly fed there can certainly be no objection to its use.

THE MICHIGAN FARMER.



2:021/2

For over 25 years I have been guaranteeing that "International Stock Food" as a Tonic purifies the blood, aids digestion and assimilation so that every animal obtains more nutrition from all grain eaten and produces more nerve force, more strength and endurance. Over Two Million Farmers strongly endorse superior tonic qualities of "International Stock Food" for Horses, Cattle, Sheep, Hogs. It Always Saves Grain. Dan Patch 155 has eaten it Every Day, mixed with his grain, for over Eight Years, just as you eat the medicinal mustard, peper, salt, etc., mixed with your own food. Minor Heir 1:58/2; George Gano 2:02; Lady Maud C 2:00/2, and Hedgewood Boy 2:01, have eaten it Every Day for past Two to Four Years and they have all lowered their very low records during this time which is additional, indisputable proof that "International Stock Food" as a Tonic gives more speed and more strength and more endurance because everybody thought these Five Horses had reached their speed limits before I got them. It will also keep your Work Horses fat and sleek and in Extra Strength to do More Farm Work or Heavy Hauling. It Always Saves Grain.

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LANTERNS

AN IMPROVISED PACKING HOUSE.

Perhaps an explanation of how we converted a barn into a packing and storage through the roof. house will be of interest to readers who contemplate utilizing some building now not completed the building as we intend to do above ground as yet, but we have the cellar completed and filled with apples, and have the floor above in condition to pack the fruit, and the second story for storage of empty barrels, but have not as yet arranged the lighting and ventilation and floors as we intend to do.

This barn was an old timer, 32 by 38 floor being about nine feet and the secsmaller side door, also four-foot doors at and has a wide whitewood cornish and whitewood lap siding. It was formerly used as a horse barn but when we remodeled our grain barn, the stables were question stood near the road and obconsidered a necessity anyway.

of the question. We came as near to can lower the barrels very easily, also

siderable litter into the cellar, and will of careful as well as thorough work, I not be frost proof.

on the farm for this purpose. We have raising barrels to and from the cellar, might have been left in the way. We finally concluded to place a trap door in the floor near the side door and hang keep out of my way and have time to go two double six-inch pulley blocks, with over the rows behind me and fill the roller bearings and patent fastener which will hold the rope at any place, suspended from the ceiling above. We had the blacksmith make an iron ring large three times over the row, but has the enough to slip over the top of an apple advantage of giving me an opportunity barrel, and at each side of this ring to give my personal attention to every feet, with quarter pitch roof, the first place an eye through which the rope could pass to a hook at each side which ond about five feet at the sides. There hooked over the chime of the barrel at but we still hope for an opportunity to was a ten-foot door at each end and a the bottom. These hooks supported the complete our task before winter really weight and the ring prevents the barrel each end above. It was built when lum- from tipping, so we can handle both ber was more plentiful than at present, headed and open barrels or even boxes. The hooks can be slipped beneath the in urging the doing of the work, the barrel by tipping it to one side a little, and by placing a circular block on the cellar bottom for the head to rest on the put in this, it being more convenient for hooks will unfasten when the barrel feeding hay and fodder. The barn in reaches this block. In this manner we can handle the barrels quite rapidly, and scured our view, so moving it had been thus far have not used the driveway entrance at all as we can raise the barrels Our ground is nearly level, so a base- to the first floor and roll them upon a ment with open level driveway was out platform wagon more easily. One man

We expect to lay employed a man to dig the dirt away two thicknesses of building paper over from the trunk of such trees as showed this noor and lay a matched floor on evidence of borers by the presence of the strips laid on this, which should allow of gummy formation at the surface of the keeping fruit in the cellar during the ground. Having the soil removed with We are also planning on a a hoe to the depth of three or four inches ventilating shaft to run from the cellar I followed, armed with a good jackknife and a pointed trowel, and carefully hunt-We studied for some time on a cheap ed out the destructive little pests, using and convenient method of lowering and the trowel to remove any dirt that

> It soon developed that the man could holes at the same time shovelling in enough extra soil to fill a little above the level. This, of course, demands going The cold wave and storm of the tree. 12th found us with the work unfinished, comes. If we are not able to do so we shall consider finishing the job to be one of the urgent needs of early spring. But writer would emphatically urge the importance in the choice of a person with whom to trust the work. A careless man may do more harm with his knife than the borers will do if left to themselves. L. H. STODDARD. Kalamazoo Co.

### PROTECTING TREES FROM RABBITS.

The large number of orchards planted the past few years has created much interest in the rabbit question. The Kansas experiment station has found that a spray made by mixing buttermilk and common stove soot in the proportions of one gallon of buttermilk to one-half pound of soot and boiling together for a period of twenty minutes, makes a satisfactory repellant when applied to the trunks of trees.

### APPLE MARKET IS IMPROVED.

The conclusions reached earlier in the season that the market for late apples of this year's crop would be a decidedly different one than that for the summer apples are already being supported by the trend of the big markets where the trade is becoming firmer and showing a steady undertone with prices ruling higher. In the Caicago market receipts are running lighter and the demand holds steady with prices ranging from \$2.00 to \$4.00 for the more popular varieties. The Philadelphia market is firm, following an improved demand for fancy apples. Inferior grades are still burdening the market there but the influence will soon be lost since the supply will soon be exhausted by decomposition if not disposed of early. While the New York market is still receiving a considerable amount of windfalls and apples of lower grades, the depression which recently was felt in every part of the market is lessening and the trade is already showing a strong tone for the fancy grades. The freeze caught many apples unharvested and damaged them to an extent that will prevent their competition with others on the market this winter. The conclusions reached earlier in the

### MICHIGAN LAND AND APPLE SHOW

and creating drafts. We have removed one granary and the partitions but left a granary on one corner so that spray poisons can be kept away from children or animals.

As it now stands, the building will hold about 1,000 barrels in the attic and 1,000 in the basement, and the packing floor will accommodate perhaps 500 and allow of room for packing. While I have not computed the cost as yet I do not think it will exceed \$400 when completed. It will answer, I think, until our young orchards have reached a bearing age, when we may be able to have something better. Calhoun Co.

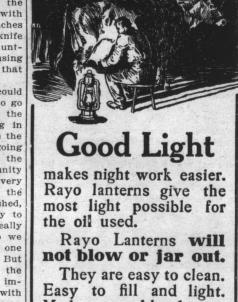
S. B. HARTMAN.

DESTROY THE BORERS.

We have not usually found it necessary to give any attention to the peach tree borer. While we have known in past borer. While we have known in past colored apples, the arrangement as to colored apples, the arrangement as to colored apples, the arrangement as to color made a very pleasing effect.

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A. GRIFFEN.



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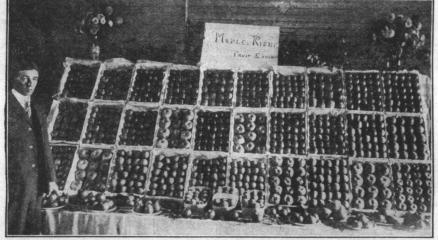
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Fruit Exhibit of W. S. Palmer at Kalkaska County Fair. Illustrates Attractiveness of Showing Fruit in Boxes, Instead of on Plates.

feet into the cellar at the lower end. A rolled to their position without lifting. cellar was dug under the entire building under all of it, using plenty of small stone in the grout. Such walls can be built gravel from the cellar bottom, though in this case we had to go below the bottom to get enough gravel, and fill up with other soil. In addition to the four walls wings were made at each side of the driveway 16 feet long and this approach to the basement was sided up and roofed over, making us a covered entrance with doors at the bottom and the top. This part is 12 feet wide and the space above entrance way and makes a handy place to store barrels or fruit. It also makes a double protection to the cellar against heat and cold. The cellar bottom is floored with from three to four inches of cement.

There are six windows 18 inches high. to the cellar, with double glass windows hung to swing up on inside, and matched wood shutters to swing up on outside.

The floor to this part is wide plank with

this as we could, selecting a place where raise them, but the latter is hard work the ground sloped about two feet in the for one man to work at steadily. In filllength of the barn. The wall was built ing the cellar we can fill by layers and two feet above the ground at the upper tiers in such a way that the barrels need which left an incline of four or five be lowered no farther than necessary and

We are not planning on making the eight feet deep, and a grout wall built part above the cellar frost proof, intending to use this more for packing than for storage. We expect to put in more winquite cheaply here, as we can get the dows so plenty of light can be secured without the necessity of opening doors and creating drafts. We have removed one granary and the partitions but left a granary on one corner so that spray poisons can be kept away from children or animals.

about 1,000 barrels in the attic and 1,000 in the basement, and the packing floor will accommodate perhaps 500 and allow is floored over at the same incline as the of room for packing. While I have not computed the cost as yet I do not think it will exceed \$400 when completed. It will answer, I think, until our young orchards have reached a bearing age, when we may be able to have something better.

The latter are arranged to open at any angle so as to keep out the sun and rain and at the same time allow of ventilation.

We intended to grade up the ground at each end so as to give a driveway through the barn, but did not get it done before the packing season, and find that usually of the barn is too full to drive through, and that it is convenient to have end door as well as side door at the height of the wagon bed so two wagons can stand there at one time and the fruit can be unloaded at one door, sorted and packed and stacked near the other door for reloading if it is to be shipped at once, so I think we shall make only one grade entrance and leave two at the height of the wagon bed.

The floor to this part is wide plank with the very mide grades also which lets contained to the peach tree port at the unsually round to the peach tree provided any attention to the peach tree pack hown in past too flight when have known in past too flight we have known in past too fored apples, the arrangement as to colored apples, the arranged colored apples, the arranged colored apples, the arranged to seasons that they were occasionally detroyer our two-year-old peach or chard after having secured our apple crop we found that they were unusually numerous. Fortunately, (ow-the peach or the will association, was equally fine as to quality of full asso

notes imperative demand for prompt atrather wide cracks, also, which lets con-tention. Fully realizing the importance

### GRAIN

Reports from the grain fields of Alberta, Canada, show splendid Western yields of wheat, oats and barley.

barley.

Many farmers have paid for their land out of the proceeds of the crop of 1911.

At exhibitions throughout the U.S. wherever the grain from this Province has been shown it has received the highest commendation.

Free Homesteads of 160 acres and adjoining pre-emptions of 160 acres (at \$3 per acre) are to be had in the choicest districts. Schools convenient, climate excellent, soil of the very best, railways close at hand, building lumber cheap, fuel easy to get and reasonable in price, water easily procured, mixed farming a great success.

Write as to best place for settlement, settlers' low railway rates, pamphlet "Last BestWest," and other information, to Supt. of Immigration, Ottawa, Can., or to Can. Gov. Agt.

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to Can. Gov. Agt.

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Not a single feature of our Maple Evaporator sed dispensed with. The simplest and most eccal way of making maple syrup. Produces hiquality which brings most money. Made in 22 or large and small groves. Write for catalogive number of trees you and the second small groves.

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### Johnson Seed Potato Co. Richmond, Maine.

Choice Seed Potatoes of strong vitality grown on new land. Active Agents wanted. Catalogue free. Address A. C. Valentine, 109 Whittemore St., Saint Johns, Mich

# THE LARGEST AND BEST LINE OF

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

Time to Plant will soon be here.

prices for the best stock. Apple and Cherry In
to you. ERNST NURSERIES, BOX 2, Mose

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

### THE DECEMBER PROGRAMS.

State Lecturer's Suggestions for First Meeting.

Anniversary day program, commemorating the birth of the Order, December 4, 1867.

10:00 a. m. Call to order in Fourth Degree

Election of officers.

Noon recess—dinner served to all members of Grange families.

1:30 p. m. Reports of retiring officers. Suggestions for good of the Order. Grand march about the hall, led by assistant stewards.

Plays and games in charge of letters.

Plays and games, in charge of lectur-ers and assistants.

### A UNIQUE POMONA MEETING.

The fall session of Dickinson Pomona was unique in annals of Granges over the entire country from two viewpoints:

It was a Pomona "on wheels;" who ever heard of such before? Opened at Sagola one day, it closed at Waucedah, forty miles away, the next. This was made possible by steam cars, autos and carriages, added to the enthusiastic energy of new Patrons of Husbandry who are earnestly bent on developing the agricultural resources and people of that portion of Michigan's wonderful "upper empire." The largest subordinate Grange of this county is at Vulcan, between the places at which this unusual meeting was held. It has in its membership the master of the county Grange and a majority of the fifth degree members. These



Grange and furnish program was received and secreted. The topics on the program ance and Grange life insurance—both of which were discussed.

A Corn and Cake Contest.—Howard Crange held a corn show at Dowagiac, the contest of the possible and the corn of the possible and the prizes had been awarded a fine supper was served. This Grange had a fine supper was served. This Grange has been particularly active in planning meetings which shall be of general interactions of the possible and sealous young patrons (for so every one of them is at heart and in Grange experience), started in two autos and by train on the morning of the first day for the thirty-mile trip to said. Next morning they reversed the process, arriving at Vulcan at noon; and here a delightful feature of their plan developed. The strictly "young people" of the crowd got off in the autos early enough to reach their home Grange hall in time to have a piping hot dinner ready when the others, traveling by rail and carriage, arrived. These sat down at their own Grange dable, set with their own Grange dishes and choice foods from their own Grange dishes and choice foods from their own Grange dable, set with their own Grange dishes and choice foods from their own Grange table, set with their own Grange dishes and choice foods from their own grange that was reveal by the committee, when the others, traveling by rail and carriage, arrived. These sat down at their own grange table, set with their own Grange dishes and choice foods from their own grange than the convergence work; a representative of the state I bear of the convergence work; a representative of the state I beary with a sample traveling library; the State Grange lecturer with printed matter and photos showing what other Granges are doing in program work. It was a regula Granges are doing in program work. It was a regular demonstration troupe, touring the county for the first time in

the interests of the Grange.

2. While the physical side of this event meant much in sacrifice of time and wages to most of these people, and of effort and expense to all, still the spirit which they put into the whole afficiency its most noteworthy part.

annual session, at Kalamazoo, Dec. 11-15.

Pomona Meetings.

Genesee Co., with Vienna Grange, at Clio, Tuesday, Nov. 28. State Master Hull, speaker.

Kent Co., in Court House, Grand Rapids, Wednesday, Dec. 6, at 1:00 p. m. Fifth degree session and election of official was its most noteworthy part. fair was its most noteworthy part. We cers.

Address all communications relative to e organization of new Clubs to Mrs. C Johnson, Metamora, Mich.

Associational Motto.-

The skillful hand, with cultured mind, is the farmer's most valuable asset.

ssociational Sentiment.

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

### REPORT TO THE ASSOCIATIONAL SECRETARY.

As noted in the last issue, the secretaries of all local Clubs were sent programs of the coming annual meeting, credential blanks and report blanks, the latter to be filled out and returned to the associational secretary at once as it is necessary for her to have the most complete record possible from the local Clubs before formulating her report which will be presented at the State Association. Owing to the recent death of her mother, Mrs. E. Bates Snook, of Lapeer county, the Associational Secretary, Mrs. C. Johnson, of Metamora, has been unable to solicit these reports from delinquent secretaries by correspondence, and Club secretaries who have not yet reported will be conferring a favor on her by doing so promptly.-Ed.

### DELEGATES TO THE ANNUAL MEETING.

If delegates have not already been elected to represent the local Club, of which the reader may be a member, at the 19th annual meeting of the State Association of Farmers' Clubs, which will be held in the Senate Chamber at Lansing, on Tuesday and Wednesday, Dec. 5 and 6, steps should be taken at once to insure that the Club is represented there. If delegates have not been regularly elected or appointed, urge the president of the Club to act as one of the delegates or have him appoint some member or members to act in that capacity.

It is a great mistake for any Farmers' Club to let this occasion pass without being represented by one or more delegates. The benefits to be derived are so obvious that little comment regarding them seems necessary at this time. Few Clubs which have affiliated themselves with the State Association have ever withdrawn, but a few have persistently or carelessly neglected their opportunities in this respect and these should this year take steps to become identified with the central organization.

The delegates who are thus appointed, or who have been regularly elected at a Club meeting to represent the local organization at the state meeting, should be prepared to give a brief outline of the manner in which their Club is conducted at the section of the state meeting devoted to a Conference of Local Club Workers. This feature of the state meeting is one of the most profitable to the home Club, in that the delegates get many valuable ideas regarding the conduct of local organizations from the brief reports given by other delegates at the meeting. The ideas gathered in these reports may be made a valuable feature of the report of the delegate to his home Club. Delegates should also be prepared to present any matters to the state meeting as requested by the Clubs which they represent in a brief and concise manner. All such propositions should be placed in writing in order that they may be promptly submitted to the proper committee at the state meeting for consideration.

### WIXOM CLUB AND GRANGE FAIR.

The Wixom Grange and Farmers' Club held their third annual fair at the K. O. T. M. Hall at Wixom, on Saturday, Oct. 28. It was a complete success from start to finish. All roads led to Wixom that day and the hall was crowded to its utmost capacity, with a jovial, good natured crowd.

crowd.

The outdoor exhibits were products of the farm. The big pumpkin was there and the big squash, some fine specimens of the different varieties of corn, sugar beets, carrots, cabbage, turnips, etc., also a fine specimen of Swiss chard. The fruit exhibit was not large, but of excellent quality. The outdoor exhibits were very creditable and reflected great credit upon the farmers of Wixom and vicinity. The indoor exhibits were quite numerous The indoor exhibits were quite numerous and very fine. The exhibits of work done by the school children were especially fine, one of them having received over \$50 in premiums at the state fair. Some very excellent exhibits in baked goods

were shown in the children's department, also in fancy needle work. In the ladies' department many fine quilts, rugs and entries of fine sewing were on exhibit, also beautiful embroidery, drawn work, knitting and crocheting. Among the relics was a dresser cover made from a piece of a linen sheet woven by the great, great grandmother of the lady exhibiting it, over 200 years ago.

At our fair of 1910, the carding and spinning of a pound of wool was demonstrated by a lady 78 years old. This year she exhibited the same pound of wool knitted into three pairs of mittens, and received first prize.

The canned and baked goods rivaled those at the state fair. Jellies, apple butter and many other good things were also on exhibition. Much more might be said in regard to the exhibits did space permit. A fine dinner, prepared and served under the supervision of a very competent and experienced "chef," was partaken of by about 225 jolly, hungry, good-natured people, who were waited

served under the supervision of a very competent and experienced "chef," was partaken of by about 225 jolly, hungry, good-natured people, who were waited upon by a very efficient and handsome corps of waiters, and workers.

A very interesting and instructive program was rendered in the afternoon, consisting of vocal and instrumental music, select readings and recitations, short cuts in the house and on the farm. Also a very excellent talk by L. D. Lovewell, of South Lyon. There were about 230 exhibits, and \$50 awarded for premiums. Ice cream and pop corn were also sold, from the sale of which and the dinner a nice sum of money was realized.—Mrs. R. D. Stephens, Cor. Sec. of Wixom Farmers' Club.

### CLUB DISCUSSIONS.

Washington Center Farmers' Club met at Cottonwood, the home of Mr. and Mrs. W. C. Long, on Thursday, November 9, at 10:00 a. m. The meeting was called to order by the president, followed with singing by the Club. The minutes were read and approved. The secretary read some communications from Walter A French and J. L. Snyder on college 1 secretary also read of short courses. The secretary also read of short courses. The washington Center Farmers of Some things we can get along without. There were various any swers in response, which caused much that the Washington Center Farmers of Some things we can get along without. There were various any swers in response, which caused much that the Washington Center Farmers of Some things we can get along without. There were various any swers in response, which caused much that the Washington Center Farmers of Some things we can get along without. There were various any swers in response, which caused much that the Washington Center Farmers of Some things we can get along without. There were various any swers in response, which caused much that the Washington Center Farmers of Some things we can get along without. There were various any subject to be a second of the Washington Center Farmers of the Washington Center F

AMONG THE LIVE GRANGES.

the Pomona Grange?

of old Pomonas talk about "mothering subordinate Granges;" but these people began to do it the second time they met, for Dickinson Pomona was organized only last July. They went first to the weak-

est Grange in the county, one that started out in good faith but halted by the way in a district where farming is just getting a foothold. Because of this and

of a slight misunderstanding, no one met

the Vulcan people at the hall; but they

made themselves at home, arranging it and acting as Grange hosts of the occa-

acquaintance of the local members who

came; they even persuaded some to go

back and get their young people. They showed these unused patrons how to open

and conduct a Grange meeting, explaining and drilling them in the common

forms, initiating a class for them and

helping them get in shape for future work. This was followed by an im-

promptu program, closing with a social

half hour, followed by cordial "good nights" and hearty "come agains." Next

day the work was of quite a different

character, but fitted the needs just as

Grange has built a new hall. Members had decorated it in honor of Pomona,

were on hand to receive their guests,

served a hot supper and co-operated at

every point to make the occasion suc-

and purpose of the people are good; but

who can guess how much of strengthen-

ing it will mean to both that just now Vulcan patrons grasped their hands

in such an encouraging way in the name

JENNIE BUELL.

In both Sagola and Waucedah the spirit

At Waucedah the subordinate

sion.

closely.

cessful.

of

They persisted in cultivating the

Rome Grange, of Lenawee county, had 60 members present at its last meeting. Ten applications for membership were balloted on and elected, while six candidates were given the first and second degrees. An invitation to visit Cadmus Grange and furnish program was received and accepted. The topics on the program related to insurance—Grange fire insurance and Grange life insurance—both of which were discussed.

A Corn and Cake Contest.—Howard Grange held a corn show at Dowagiac.

### COMING EVENTS.

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

### THE MICHIGAN FARMER.

DETROIT WHOLESALE MARKETS.

November 21, 1911.

Grains and Seeds.

Wheat.—Price making has favored the bulls in the wheat market the past week. Conditions in the Canadian Northwest have urged better prices since the damage to the crop is now known to be large and there was a decrease in the Canadian visible supply of over half a million bushels. The chief bullish feature of the trade, however, was the reports from Argentine where the crop had been described as the best that country has ever grown; but during the past week severe storms have damaged the fields to a considerable degree so that the market cannot count on so large a surplus from there as it expected to. This bullish feature, together with the high prices in Australia, the famine in Russia, the small volume of the world's exports and the situation in the Canadian Northwest gave the wheat trade a firm tone at advanced prices in all the principal markets of the world. One year ago the price for No. 2 red wheat was 94%c per bu. Quotations for the past week are as follows:

No.	No. 1			
Red.	White.	Dec.	May.	
Thursday961/2	.931/2	.98	\$1.0234	
Friday9634	.933/4	.981/2	1.023/4	2
Saturday971/4	.941/4	.981/4	1.03	(
Monday9734	.943/4	.98%	1.031/2	
Tuesday971/4	.941/4	.981/4	1.03	1

week:

											D	Vo. 3	No. 3
											C	orn.	Yellow.
Thursday												751/2	76
											V	751/2	76
Saturday												751/2	76
Monday												751/2	761/2
Tuesday.												751/2	76
0-4-	1	1		 0							4.4		LATER TO SERVICE

Oats.—Quotations for this grain have advanced with those of corn and wheat. There was a fair amount of trade on the Chicago market while local dealing was quiet. The cereal is not likely to fluctuate far from the present basis. Ane year ago the price for standard oats was 34½ per bu. The visible supply shows a decrease of nearly three-quarters of a million bushels. Following are the quotations for the past week:

			-		-	2				70	51	a	ndard.	No. 3 White.
Thursday	7												50	491/2
Friday .													51	501/2
Saturday													51	501/2
Monday													51	501/2
Tuesday	,											·	51	501/2

Beans.—The closing prices of last week are still ruling. The trade has a firm un-dertone with few transactions. Quota-tions are as follows:

Thursday	, ,	Oct.	Dec. \$2.30
			2.30
			2.30
Monday		2.28	2.30
Tuesday		. 2.28	2.30
01	0	4	

Clover Seed.—The clover seed deal is active and firm. Prices advanced 15c on Monday. Alsike remains steady at former prices. Quotations are as follows:

	Prime Spot.	March.	AISIKe.
Thursday	\$12.35	\$12.45	\$10.50
Friday		12.45	10.50
Saturday	12.35	12.45	10.50
Monday	12.50	12.60	10.50
Tuesday	12.50	12.60	10.50

lard in tierces, 9%c; kettle rendered lard.
10%c per lb.

Dairv and Poultry Products.

Butter.—This has been another bullish week in the butter deal, restricted offerings and storage supplies accompanied by a strong demand have permitted an advance for creamery goods. Quotations are: Extra creamery, 33c; firsts, do., 32c; dairy, 21c; packing stock, 20c per lb.

Eggs.—A further advance resulted from the continued broad demand and the constantly narrowing supply of eggs with

now quoted at 28c per dozen.

Poultry.—Turkeys, geese and young ducks are higher than last week while chickens rule steady and easy, with hens slightly lower. Prices are: Live—Turkeys, 16@17c; geese, 11@12c; ducks, 12@13c; young ducks, 15c; spring chickens, 9@10c; No. 2 chickens, 8c per lb; hens, 8½@9c.

13c; young ducks, 15c; spring chickens, 9@10c; No. 2 chickens, 8c per lb; hens, 8½@9c.

Cheese.—Michigan old, 15½@17c; Michigan, late, 15½@17c; York state, new, 16@17c; Swiss, domestic block, 17@20c; cream brick, 15@16c; limburger, 14@15c.

Veal.—Market steady. Fancy, 10@11c; choice, 8@9c per lb.

Fruits and Vegetables.

Cabbage.—Steady. Selling at \$1.50@
1.75 per bbl, for home-grown.

Onions.—Steady; 80@90c per bu.

Pears.—75c@\$1 per bu. for Duchess.

Apples.—There is no change in the apple deal and prices rule steady. Average offerings are going at 50c@\$1 per bushel;

Snows are selling at \$3.50@4 per barrel.

Elgin.

Butter.—Market firm at 33c per lb., which is an advance of 1c over last week's quotation. Output for the week, 648,400 lbs., as compared with 659,300 lbs. for the previous week.

### OTHER MARKETS.

g2@35c per bu; Wisconsin, \$5@90c; Minnesota, 92@95c.
Beans.—All kinds and grades of beans enjoyed an advance ranging from an increase of 1.0c for red kidneys to 14c for pea beans. Choice hand-picked pea beans quoted at \$2.47 per bu; prime, \$2.40; red kidneys, \$3.50 per bu.

Hay and Straw.—All grades of hay and straw are steady with last week except choice timothy which is down 50c; wheat straw advanced the same amount. Quotations: Choice timothy, \$22.50@23.50 per ton; do., No. 1 \$21@22; do., No. 2 and No. 1 mixed, \$19.50@20; do., No. 3 and No. 2 mixed, \$14.50@18.50; clover, \$15@17; do., No. 2 and no grade, \$8@13; rye straw, \$9.50@10.50; oat straw, \$9.90.50 per ton; wheat straw, \$7.50@8.50 per ton.

Boston.

Wool.—There was not a heavy volume of business in any line last week, the largest part of attention, however, was given to the lower grades of fleece wools and in clothing territory wools. On these particular kinds prices are exceptionally firm and much stronger than grades which are not at this time in such good demand. Shipments of wool from Boston from Jan. 1 to Nov. 16, inclusive, amounted to 188,044,599 lbs., as compared with 193,402,986 lbs. for the corresponding period of 1910. The receipts for the above period this year were 275,417,651 lbs., as compared with 249,613,456 lbs. in 1910.

every prospect that further upward \$3@3.50; stockers, all grades, \$2.75@3.50; changes in prices will follow. Fresh receipts, case count, cases included, are now quoted at 28c per dozen.

Poultry.—Turkeys, geese and young ducks are higher than last week while \$25@35.

Proday's supply of home expected the prime export bulls, \$3.25@45; bologna bulls, \$3.25@45; stock bulls, \$3.25.35; best milkers and \$25.26.35; best butcher \$25.25.35; best butcher \$25.26.35; bes

\*25@35.

Today's supply of hogs exceeded the demand, which gave buyers the advantage, and they succeeded in forcing a decline. The bulk of the choice quality mixed and medium grades selling at \$6.35 @6.40, the latter price for those running to the heavier weights; a few decks of heavy hogs, strictly choice quality, sold up around \$6.50, and the good quality best weight yorkers sold from \$6.30@6.35. Light yorkers around \$6.66.15; pigs from \$5.75@5.90; rough sows from \$5.70@5.75. Good many late arrivals going over unsold. unsold.

unsold.

The sheep and lamb market was very slow today; only a few of the choice lambs selling at \$5.25. Will be about 35 loads holding over unsold. Prospects look bad for the balance of this week, as the most of the dealers are pretty well filled up. Most of the best ewes selling at 3c; wethers at \$3.25@3.50.

Wa quote. Best lambs \$5.15.65.25.

wethers at \$3.25@3.50.

We quote: Best lambs, \$5.15@5.25;
cull to common do., \$4@4.30; wethers,
\$3.25@3.50; bucks, 2.25@2.50; yearlings,
\$3.50@4; handy ewes, \$3@3.15; heavy do.
\$2.85@3; cull sheep, \$1.50@2; veals,
choice to extra, \$9@9.25; fair to good do.,
\$7.50@8.75; heavy calves, \$3.50@5.

### Chicago.

SOTHER MARKETS.

OTHER MARKETS.

New York.

Butter.—Best grades advanced, others about steady. Creamery specials are quoted at 35@35½c per lb; extras, 34@ 34½c; firsts, 31@35½c; seconds, 28@30c; thirds, 26@27c per lb.

Eggs.—Another increase in quotations Beggs.—Another increase in quotations affirsts, 35@35; seconds, 28@30c; western chickens, 10½@11½c; fowls, 10½m11½c; fowls, range steers sold at \$4.50@7.50, and stockers and feeders were fairly active, being largely 25c lower, the choicest lots excepted. Stockers went at \$3@5.10 and feeders at \$4.25@5.90, but not many stockers sold above \$4.75, while the bulk of the feeders sold at \$4.75@5.50. It is highly probable that a good many grass fed cattle will be sent in during the next few weeks, and this will tend to hold prices down for such stock, but later on the general market is expected to rule better for sellers. Of course, it is not to be expected that cattle can advance indefinitely, however, and the dearness of beef is bound to curtail its consumption, causing other cheaper meats to be substituted. At the week's close beef cattle sold largely 25@50c lower than a week earlier, and good lots declined most. Thanksgiving week will check the demand for beef, and cattle shippers should not forget this.

Hogs are all needed, especially the cheicer lots, and the undertone of the

Ordinary Patent

4.75

Sheep and lambs have undergone extraordinarily wild fluctuations in prices recently, last week starting off with advances of 25@50c in fat lambs that carried the best native lambs on Monday up to \$6.25. Sheep and yearlings also had good advances the same time on much reduced receipts, while later in the week sharp breaks in prices were brought about by larger offerings and a less eager general demand. The receipts of both sheep and lambs have been averaging only moderately well in quality, and this applies especially to the range offerings, as is usually the case at the close of the season for these flocks. The outside demand has undergone a marked falling off, and this enabled local packers to make better bargains frequently. Feeders have shown the most firmness, as these continued in good demand, while the offerings fell off a great deal. It is likely that a good many flocks will be marketed on the appearance of severe weather, and this will tend to make low prices, but subsequently the market promises to rule high, as much less feeding is being done than a year ago. At the week's close lambs were 50@75c lower and sheep 25c lower than on Monday, lambs bringing \$3.10@3.90; bucks, \$2.25@2.75, and yearlings \$4.25@4.65 Breeding ewes brought \$3.50@3.90; bucks, \$2.25@2.75, and yearlings \$4.25@4.25, and feeders paid \$4.50@5.10 for lambs.

Horses have been offered too freely for the wants of the trade, and dealers re-

\$3.25@4.25, and feeders paid \$4.50@5.10 for lambs.

Horses have been offered too freely for the wants of the trade, and dealers report sales of the less attractive animals as much as \$25 to \$30 per head lower than during the best period of the year. Light to medium weight drafters have been selling at \$175@225, with a choicer grade of heavier ones at \$230@275 and prime extra heavy drafters quotable at \$280@325, few of the best being offered. Wagon horses go mostly at \$160@200, and inferior to fair horses bring \$65@150.

### LIVE STOCK NOTES.

The Wisconsin Experiment Station recently bought at Chicago a bunch of 15 head of choice Hereford, Angus and Shorthorn feeder steers that averaged around 1,000 lbs. for \$5.75 per 100 lbs., and several other car loads of choice strong-weight feeders, including two carloads of 1,140-lb. steers, which sold the same day at the same price.

A prominent commission firm located at the Chicago stock yards that handles sheep exclusively, says: We are getting a good many inquiries from feeders of western range sheep and lambs who have been running them on grass. From the tone of their letters, we take it for granted they are inclined to market their holdings at an early time. This is the danger point of this year's feeding: If people who are holding sheep and lamb do not get panicky and crowd the market with half-fat stock, the outsome will be all right, but if they all try to market their stock between now and the new year, the market will be low and mean, and after that there will be a shortage and higher prices. We believe this is a year when feeders can afford to make their flocks good before marketing. While feed is high, considering the reduced number on feed, we should have a good trade."

A marked change has taken place in the character of the Chicago sheep and

reduced number on feed, we should have a good trade."

A marked change has taken place in the character of the Chicago sheep and lamb market recently, and with the season for hipping in western range flocks nearing its close, the aggregate offerings have fallen off materially in volume most of the time. The offerings of feeder stock have fallen off greatly, and while three has been a good demand for feeding wethers around \$3.50 per 100 lbs., most of the sheep offered were too heavy for feeding purposes. It is safe to say that around 75 per cent of the sheep and lambs received were killers and went for slaughter, being largely native lambs of fairly good to superior quality. Numerous old, thin ewes, principally from Montana ranges, have been received and went at extremely low prices, often going at \$2 per 100 lbs. or even less. Now and then they have good teeth and are good enough for breeding purposes for a year or two, when they sell up to \$3.

Farmers and stockmen of many years' experience in fattening live stock for the

or two, when they sell up to \$3.

Farmers and stockmen of many years' experience in fattening live stock for the market regard this as an ideal winter to go into fattening cattle. An Illinois cattle feeder of 35 years' experience in that line remarked the other day that during that long period he never made more money than when corn was high-priced, finding that dear feed usually thinned the ranks of the feeders to such an extent as to cut down supplies of fat beeves much under trade requirements.

J. T. Hamilton, a resident of Montana

### 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 malled Thursday, the last edition Friday morning. The first edition is malled 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.

to Mich. B. Co. 15 butchers av 960 at \$3.40.

Haley & M. sold Bresnahan 4 canners av 917 at \$2.50, 7 do av 864 at \$2.50, 7 do av 763 at \$2.55, 3 do av 880 at \$2.50; to Newton B. Co. 2 bulls av 800 at \$3; to Breitenbeck 4 cows av 1,022 at \$3; to Lachalt 6 butchers av 890 at \$4; to Goose 7 do av 420 at \$2.85, 12 cows av 1,071 at \$3.25; to Pratoski 8 butchers av 547 at \$3, 1 cow weighing 870 at \$2.60; to Hirschleman 13 butchers av 614 at \$3.60; to Hammond, S. & Co. 16 do av 582 at \$3.35; to Pratosky 4 do av 617 at \$3, 2 do av 700 at \$3.50; to Goose 7 do av 400 at \$3.55; to Mich. B. Co. 1 bull weighing 880 at \$3.85, 6 heifers av 690 at \$4; to Regan 13 do av 583 at \$2.50.

Spicer & R. sold Bresnahan 2 canners av 825 at \$2.50, 13 butchers av 574 at \$3.10; to Laboe 18 do av 788 at \$4; to Thompson Bros. 1 cow weighing 920 at \$3, 8 do av 794 at \$4, 5 do av 752 at \$3.75; to Sullivan P. Co. 1 steer weighing 1,000 at \$4.75; to Rattkowsky 4 cows av 970 at \$3.50, 3 butchers av 340 at \$3.50, 3 butchers av 375.

Downing sold Bresnahan 3 canners av 825 at \$2.50.

Downing sold Bresnahan 3 canners av 847 at \$2.25.

Veal Calves.

Receipts, 605. Market steady at last

2,124. Market active at Thursday's prices.

We quote: Best steers and heifers, \$5.50; steers and heifers, 1,000 to 1,200, \$5.65.25; do. 800 to 1,000, \$4.50.65; do. that are fat, 500 to 700, \$3.50.64; choice fat cows, \$4; good fat cows, \$3.63.50; common cows, \$2.50.63; canners, \$1.25.60; common cows, \$2.50.63; canners, \$1.25.60; common bulls, \$3.50.63.75; stock bulls, \$2.75.63.25; choice feeding steers, 800 to 1,000, \$4.25.64,75; fair feeding steers, 800 to 1,000, \$4.25.64; fair tockers, 500 to 700, \$4.64.50; fair stockers, 500 to 700, \$3.50; stock heifers, \$3.63.50; milkers, large, young, medium age, \$40.655; common milkers, \$20.630.

Veal Calves.

Receipts this week, 1,095; last week, 989. Market 25c lower than on Thursday. Best, \$8@8.50; others, \$4@7.50. Milch cows and springers steady.

Sheep and Lambs.

Receipts this week, 12,200; last week, 9,692. Market 5@10c lower than on Thursday. Best lambs, \$5@5.10; fair lambs, \$4@4.75; light to common lambs, \$2.75@3.50; fair to good sheep, \$2.75@3.50; culls and common, \$2@2.50.

847 at \$2.25.

Same sold Parker, W. & Co. 5 av 1,060
at \$2.75, 2 bulls av 1,035 at \$3.50.

Adams sold Hammond, S. & Co. 7 canners av 917 at \$2.60.

Same sold Lachalt 10 butchers av 902
at \$4.65.

Same Sold Lachalt 10 butchers av 902
state \$4.65.

3.50; culls and common, \$2@2.50.

Receipts this week, 18,257; last week,
14,709. Market steady with Thursday.
Light to good butchers, \$6.25@6.35; pigs,
\$5.25@5.75; light yorkers, \$5.80@6.20.

### ADDITIONAL VETERINARY.

Receipts, 605. Market steady at last week's close; common grades very dull. Best, \$8@8.59; others, \$4@7.50. Milch cows and springers, quality common, market steady.

Bishop, B. & H. sold Parker, W. & Co. 5 av 145 at \$8, 1 weighing 2i9 at \$7.59, 2 low the fetlock loint and best at \$1.0 at \$6, 27 av 140 at \$7.75, 1 weighing 2i9 at \$7.59, 2 low the fetlock there are hard ridges where heels formerly cracked open. Would 120 at \$5, 3 av 125 at \$8.59, 3 av 140 at \$7.75; to Hammond, S. & Co. 12 av 160 at \$3.75, av 130 at \$8, 8 av 140 at \$8.25, 7 av 135 at \$6, 7 av 140 at \$8.50, 3 av 135 at \$8.50, 2 av 110 at \$6, 50; to McGuire 4 av 155 at \$8.25, 2 av 110 at \$6, 50; to McGuire 4 av 155 at \$8.25, 2 av 110 at \$6, 12 av 150 at \$8.50; to Newton B Co. 10 av 132 at \$8, 50 av 150 at \$8.50; to Sullivan P. Co. 2 av 160 at \$8, 50 av 140 at \$10 at \$6, 12 av 150 at \$8.50; to Sullivan P. Co. 2 av 160 at \$8.50; to Burnstine 3 av 160 at \$8, 6 av 140 at \$7.50.

Spicer & R. sold Sullivan P. Co. 2 av 170 at \$9, 9 av 140 at \$7.50.

Spicer & R. sold Sullivan P. Co. 2 av 170 at \$9, 9 av 140 at \$7.50.

Robb sold Newton B. Co. 2 av 95 at \$6, 3 av 140 at \$8; to Newton B Co. 4 av 145 at \$8.25, 3 av 140 at \$7.50.

Robb sold Newton B. Co. 2 av 95 at \$8.00.

Robb sold Newton B. Co. 2 av 95 at \$8.00.

Robb sold Reattkowsky 9 av 140 at \$8.00.

Robb

145 at \$8, 2 av 140 at \$7.50; to Sullivan P.
Co. 4 av 145 at \$6.

Haley & M. sold Mich. B. Co. 9 av 130
at \$7.25; to Sullivan P. Co. 2 av 215 at
\$3, 3 av 110 at \$7.

Sheep and Lambs.

Receipts, 5,731. Market steady at Wednesday and last week's closing prices; common grades dull. Best lambs, \$4.75\(\text{0}\) is gift to common lambs, \$3\(\text{0}\)3.25; fair to good sheep, \$2.50
\(\text{0}\)3; culls and common, \$1\(\text{0}\)2.50
\(\text{0}\)3; culls and common, \$1\(\text{0}\)2.50
\(\text{0}\)3; culls and common, \$1\(\text{0}\)2.50, 52
\(\text{Bishop}\), B. & H. sold Hammond, S. & Co. 16 sheep av 90 at \$1.75, 23 do av 120
at \$2.50, 16 lambs av 57 at \$2.75, 9 do av 55 at \$3, 30 av 70 at \$4.75, 7 do av 55 at \$3, 30 av 70 at \$4.75, 7 do av 55 at \$3, 40 av 70 at \$5, 52 do av 70 at \$5, 17 sheep av 92 at \$3; to Thompson Bros. 34 lambs av 45 at \$2.

Thompson Bros. 34 lambs av 45 at \$2.

The average and salt and give them each a tablespoonful or two at a dose in feed three times a day. Also feed them some at three times a day. Also feed them some in one fore leg last April and has never recovered. Have consulted two different Vets. One of them says to the lameness is in coffin joint and the other is undecided. We have applied two blisters at different times to coronet without results and colt has been in pasture until lately. J. M. P. & S., Hastigo, Mich.—If the lameness is in coffin joint, she will point foot and hold it in advance of opposite one, the heel will be ever and the will be averaged and salt and give them each a tablespoonful or two at a dose in feed three times a day. Also feed them some at a topics at a different Vets. One of them says to the lameness in in coffin joint and the other is undecided. We have applied two oblisters at different times to coronet without results and colt has been in pasture until lately. J. M. P. & S., Hastigos, Mich.—If the lameness is in coffin joint, she will point foot and hold it in advance of opposite one, the heel will be aveck and give them each at ablespoonful or two at

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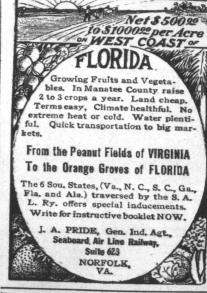
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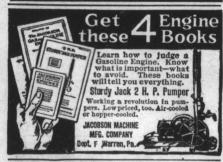
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