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

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DETROIT, MICH., SATURDAY, DEC. 10, 1910.

THE INTERNATIONAL.

The recurrence of the season for the be found among the entries in the various point the great, Irish judge said: departments

The Fat Cattle Classes.

have been won by an entry of the Iowa Agricultural College. holding of this premier live stock show this steer as the Grand Champion of the shown at the International. of America has this year seemed to inspire show has again demonstrated the ascendshow made it apparent that the propor- ten months and the wonderful firmness feeding period.

for his owner.

The selection of hibits averaged the best of any ever a factor in the ration.

an increased number of stock breeders ency of baby beef in the favor of our champion car load, the modern tendency the International. "I E. P. Hall, of Illinois.

tion of those in attendance who were per- of flesh gave him the place over the Can- cattle up as calves from the best herds winner of this coveted prize. sonally interested in the live stock busi- adian steer. Roan James, a great steer, in six Illinois counties during October of the grand champion car load sold in the ness was larger than usual at this show, but a trifle softer in flesh."

The grand champion car load sold in the last year. He purchased 46 head of the ring to a Pittsburg firm at 13½ cents per which would seem to assure that the ben
The steer referred to by the judge as best he could find, some of which were pound which, while not a record price for efits of the exposition to the live stock a close second to the grand champion was pure-breds, but most of which were high- winners in this class, is about a fair avindustry of the country will be corres- a yearling Shorthorn, champion in his grades. These were all fed until about erage of values reached in previous years. pondingly great. As for the show itself, class, bred and fed by James Leaske, of two months ago, when Mr. Hall reduced They crossed the scales at an average it was fully up to if not superior to the Ontario, who won the grand championship their number by elimination to 37 head, weight of 1,156 lbs., and brought their high standard of previous years in qual- of the show in 1907 with Roan King, a and fed the balance to finished condition, owner \$2,340.90 after winning prizes totality, while in the number of high-class ex- half brother of Roan James who came selecting his steers for the International ing \$1,125. hibits it excelled last year's show in most near to landing a second championship exhibit only a few days ago. To his fore-The story of this calf's selection and the success in the ring, as Judge Ingwersen horn yearlings over other steers

the third time in the period that they year, it was the unanimous opinion of the ration, and during the last six weeks of best judges that the quality of the ex- the feeding period oil cake has been made

Mr. Hall is an extensive feeder of cat-Again, in the selection of the grand tle, and has been a frequent exhibitor at In 1904 he won first and feeders, from all parts of the coun- best judges of quality as well as of the toward the baby beef type was evidenced, premium on a load of Angus steers, from to attend the show and gather all consumers who favor the tender, juicy the yearlings being the favorites of the which one steer was selected as an outthe knowledge possible from a compara- meat of the well finished calf or year- judges as well as of the spectators at the standing individual and a possible future tive study of the grand specimens of the ling. The weight and quality of the grand show. The final winners of the grand winner by the Iowa Agricultural College improved breeds and the finished products champion were little short of marvelous championship in this class were a load experts. The steer was purchased by of the feeder's art which are always to when his age is considered. Upon this of 1,200-lb. Angus yearlings exhibited by them, and their judgment was verified by his future development and by the fact departments at the International. A never in my life saw such a ripe steer for A notable thing about these cattle is that he won the grand championship in study of the crowd in attendance at the his age. The weight of 1,100 pounds at that they were never housed during the the individual fat steer class the next A notable thing about these cattle is that he won the grand championship in Mr. Hall picked these year. The steer was Blackrock, the 1905

The championship in the Shorthorn sight in this regard he probably owes his special class was won by a load of Short-As usual at this show the public inter- method of feeding which resulted in his placed emphasis on the even quality of breed of all ages, shown by J. D. Waters,



Grand Champion Car Load of Fat Steers at the International for 1910. Baby Beef Fed in the Open, Fittingly Pictured with Snow Covered Backs.

judge, Richard G. Carden, who was the ner in 1900, sold for \$1.50 per pound. expert secured to make this final selec-

est centered around the picking of the winning the high honors are most inter- the load in comparison with two and of Illinois. number of entries in the several classes issue, in which cuts of both steers will the championship in the older classes and and sold in the ring at \$9.15 per cwt, of fat steers by the process of elimination appear. In the sale ring Shamrock II was with which these yearlings competed for In the other breed specials no chamwhich preceded the judging of the sev- sold for 60 cents per pound, which is the the grand championship honors. As above pionship awards were made, the awards eral champions in these classes and the highest price for which a champion has noted, these yearlings were fed in an being allowed to stand by ages without final selection of the grand champion fat been sold since the first year of the In- open yard, not a shed being available for competition in a class for all ages

tion, performed his work rapidly but thor- leading beef breeds were all well repre- them a light ration of corn and oats, with ished young animal would appear to be oughly, and from among the eligibles for sented, there being 73 loads to be judged clover hay as roughage. The feed was well established in the minds of the exthe grand championship selected Sham- after the eliminating process, against 53 gradually increased until the calves were pert judges employed to pick the winrock II, a grade Angus calf shown by the last year. These were divided among the Agricultural College, making the breeds as follows: Angus, 30; Shorthorns, seventh time in the eleven years which 21; Herefords, 20; Galloways, 1, and which was shelled. During the summer by the feeder who is in the business of this show has been held that the first grades 1. Notwithstanding the greater they had the run of a blue grass pasture producing high-class beef, either on a

steer of the show. The celebrated Irish ternational show, when Advance, the win-judge, Richard G. Carden, who was the ner in 1900, sold for \$1.50 per pound.

ties of cattle feeding in the open. After pionship results at the Eleventh Interhonors have gone to the Angus breed and number of exhibits as compared with ast and were given a supplementary grain

grand champion steer from the large esting, but will be deferred until the next three-year-old Angus steers which won total of \$1,200 in prizes for their exhibitor

In the car load classes for fat steers the the purchase of these calves Mr. Hall fed national, the supremacy of the well fingotten on full feed about March 1, when ners at this great show, a lesson which they were crowded with ear corn, half of should not be allowed to pass unnoticed (Continued on page 506).

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FARM NOTES.

The Joint Rot of the Bean Stem.

The Joint Rot of the Bean Stem.

This last season our beans were cut off at the first joint above ground by some insect. Probably one-eighth of the beans in the field were affected. The beans were cut just after they commenced to fill. Can you give the cause and a remedy for the same?

Montcalm Co.

E. B. W.

It is probable that this inquirer is mis-

It is probable that this inquirer is mistaken in the cause of the trouble in his beans. Unless he has actually found the insect at work and knows that the trouble was caused by an insect, it is a reasafe conclusion that it is a sonably fungous trouble, little known and not very prevalent in this country, but designated as the joint rot of the bean stem. Attention was first called to this trouble in 1901 when the New York Experiment Station received many reports relating to a trouble of this kind. At about that time this difficulty was also noted in many Michigan bean fields, but the writer has never heard of it since until the receipt of the above inquiry. Observations made in New York at the time of its appearance, as above noted, failed to reveal the real character or cause of the trouble, which was at that time attributed to excessive rains but later in Michigan was said to be due to a fungus which attacked the plant at the first joint above the ground, although this was not satisfactorily determined. At any rate, it could hardly be caused by exceedingly wet weather in Michigan this year. It has been considered of little commercial importance for the reason that it did not prevail to any extent following the season in which it was rather common, as above noted, in the early years of the last

decade. A Winter Cover Crop for the Alfalfa.

I sowed a piece to alfalfa the last of August and sowed one bu. of barley per acre to protect the seeding through the winter. The barley has grown to be a foot high. I would like to know if the barley will be likely to smother the alfalfa and if I ought to pasture it down. Lenawee Co.

In the written's existing there will be no

In the writer's opinion there will be no danger of the alfalfa smothering out under the growth of barley during the winter. In fact, this cover should be a material aid in bringing the alfalfa through the winter without damage from the effects of cold weather. Of course, we do not know all about alfalfa yet in Michigan, but this is a reasonable theory, and is substantiated by the fact that in all sections where alfalfa is successfully grown it is the common practice to let the late growth stand over winter as a protection to the plants, and most authorities contend that there should be a growth of at least one foot left standing for this purpose when the alfalfa goes into the winter. It is probable that the barley will make a rather more dense covering for the surface of the ground than would the foot growth of alfalfa, since the stems of the latter are stiffer and not so quickly killed by freezing, but it would not be likely to mat down so closely as to smother out the alfalfa. As between leaving and removing this covering, there would seem to the writer to be no possible choice for its removal.

THE PRACTICABILITY OF THE CON-CRETE BLOCK BARN.

In some future issue I would like to have someone discuss the "pros and cons" of a cement block barn, with the horses and cows in the bank or basement part, open on three sides, north, east, and south. Some claim is made that hay does not cure well in a barn so tight as cement blocks would make it. I want to build as permanently as possible and don't want to go wrong.

Berrien Co.

R. G. B.

In reply to this inquiry would say that

In reply to this inquiry would say that of concrete block work for farm buildings by a positively favorable conclusion. I have already described this barn, but for The stable is attached to the barn and ment and silica, i. e., pure white sand, The walls of the barn are 18 feet high, the gables being frame. The reason for ties, are effective for coloring to resemble frame gables is that these lend them- reddish sandstone at a very small exselves to the modern ideas of architecture pense. in being lighter appearing. Concrete block gables would look too much like a ings, as compared with lumber, local conjail. Further, the frame gables are ditions determine this largely. Proximity cheaper and more easily supported.

Moist mixed concrete is porous as comscope, looks like a loose stone pile. The ability to do much of the work with ordicomplaint of spoiled hay against concrete nary labor, and with the lessened cost of blocks might possibly come from a high block gable of porous material. The frame gable and block walls have never given

THE MICHIGAN FARMER.

me anything but the best results in this respect. The first eight feet of wall is of 12-in, blocks and the last 10 feet of 10-in. blocks. This makes a 2-in, offset to receive the joists which support the mows.

At this point of wall making a form is built to mold the water table of 4 inches and projecting 3 inches beyond the wall. Pilaster columns are built at each corner with two in the front center and one in each end center. These columns add to the appearance and give great strength to the walls. No farm building of blocks of any considerable size should be built without the pilaster columns. These columns may be made afterwards of solid poured concrete, if well finished forms are used, and are built at less expense than where made of blocks. Since the blocks are hollow and these spaces superimposed, by leaving an opening at the bottom on the inside about one inch square, leading to this space, and a similar opening on the outside at the top of the wall, good degree of ventilation is secured and the objection of dampness, so often urged, is obviated. The somewhat usual ventilation in frame barns, of the cold air rushing in between the siding, through knot holes and through the floor, which seems to meet with general approval by those fearful of concrete construction, is obviated and in its place is really the King system of ventilation. Solid concrete walls can be improved by superimposing drain tile in a similar manner.

The plate is secured to the wall by bolts being inserted in the last row of blocks when making the blocks, and thus bolted firmly to the wall. The wall is tied with timbers in the center above the driveway at 32 feet from each end. The roof is self supporting, so the walls, with the pilaster columns, stand for any possible side thrust. The stable floors are smoothfinished concrete. In case it developed that the hard floors were injurious to horses' feet, precautions were taken that the floor might be planked over. One stall has been planked but there seems to be no reason for planking any more. A concrete floored hog pen, 20x60, was provided with boarded floors for nests, but use has determined that, when well bedded, a plank floor is a superfluity and unnecessary. A great many of the precautions in regard to concrete as building material were theoretical and passed for wisdom until experience has proven

Every person has some peculiar idea of stable construction. My idea is an attached stable to the side of the barn, with the roof constituting the ceiling. prevents dirt from mows overhead and allows the maximum of light from the windows. By placing the horses at one end of the line and using a litter carrier the manure is mixed and the horse manure prevents the pile from freezing in winter, and the cow manure prevents the overheating of the horse manure and consequent loss of nitrogen. The main body of the basement can always be utilized for sheep, colts or dehorned cattle.

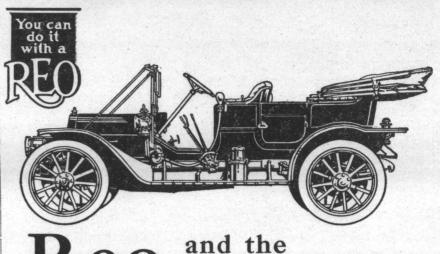
The barn described has been in use five years and has fulfilled every expectation. It is cool in summer time, warm in winter. When the storms are raging outside it is calm inside.

The show farm buildings in the east, giving monolithic or solid concrete effects, are usually low and conform to the European models of farm buildings. Concrete block barns, medium to high, with frame gables, are more the Middle West style of farm building. Since architecture in a measure reflects the taste and the spirit of the times, concrete block work will be one of the features of the great farm belt, just as the red barn is at the present time. There are numerous tricks of the experience has fully confirmed the idea trade which enable one to change the somewhat objectionable monotony of the gray colored concrete. Face down block machines enable one to use an addition of the benefit of more recent readers will lime to the mixture, which makes the again go into some details. The barn is blocks a pleasing white on the face. If 40x80, with a stable on the side 22x100, more expense is permitted a special cehas 8-foot concrete walls to the plate. makes almost a marble face. Iron ore paint or venetian red, bought in quanti-

As to the cost of concrete block buildto sand and gravel is an important item, also distance from point of haul for cepared to wet mixed and, under the micro- ment. On general principles, with the painting, the difference is in favor of concrete work.

JAS. N. McBRIDE. Shiawassee Co.





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THE POTATO CROP.

With Accounts for 1909 and 1910.

While we do not make a specialty of potatoes we have, in common with a number of farmers, grown from two to five acres for several years past. We have not always used the best ground for the purpose, but rather that which was the purpose, but rather that which was seven the purpose that the purpose the purpose that the purpose that the purpose the purpose the purpose that the purpose that the purpose that the purpose the purpos most readily available; for instance, the 1909 crop was grown on a wheat stubble where the seeding had failed, and the other crops have for some time been grown in young orchards as a suitable catch crop. This year's crop was grown in this way, on a timothy sod which was plowed up for a young orchard. We feared to plant corn here on account of the grubs and cut worms, and did not care to plant beans after our experience with flea beetles last year, neither would strawberries be suitable after the sod, and grain crops would not be allow-

In addition to the soil not being in ideal condition for potatoes so far as the rotawhich the two crops mentioned were grown is somewhat run down, it having who had rented the fields for many years, and had put little back in the way of fertilizer. Consequently the soil was deficient in humus, and being on the clay order was too hard and compact for good potato soil. This explanation will help to yields notwithstanding the heavy coats of manure and the abundant culture given, also the large number of sunburned potatoes in the crops, the ground being so hard that the tubers lay near the surface. This might have been partially prevented by hilling with a shovel plow, but we feared to do this during the very dry weather, and in general we prefer level culture; however, under these conditions I believe it would have been better had we hilled them up slightly after the rains in late August.

Potato Account, 1909, Four Acres.

Expenditures.	
Mar., Apr. and May, 41½ loads manure at 50c on ground\$	20.75
May, Plowing	5.00
June 2-19, Harrowing six times	6.55
43 bu seed potatoes at 85c	36.55
Treating seed and cutting	3.50
Marking ground, both ways	.75
Marking ground, both ways	
June 21-24, Planting with hand	6.75
planters	.85
June 30, harrowing	.00
July 10 to Aug. 19, cultivating four	0.00
times	6.25
Aug. 7, spraying for blight, 3 bbls.	4-2-2-
Bordeaux and labor	2.90
Aug. 21-23, pulling weeds	2.00
Oct. 26-30, digging (by hand) and	
putting in cellar 485 bu. unsorted	
potatoes	27.06
Dog & conting out frozen	21100
Nov. 16 to Dec. 8, sorting out frozen,	9.50
rotting and small potatoes	5.50
FD-4-1	20 91
Total\$	100.01
Receipts.	
100 bu. at 12½c\$	12.50
49 bu. for planting, credited at 121/2c	6.12
33 bu. sold at 10c in cellar	3.30
55 bu. Sold at 100 lil cellal	0.00

Total receipts\$ 49.72

Net loss on crop \$1.19
Net loss per acre \$20.30
It will be noted that the seed, most of was realized from the part of the crop sold, and within \$13.17 as much as was credited to the entire crop. True, we dollars, but we were in a hurry and did once. not wish to take the o to car them, on and the frost came out of them they cow stables than dry fine earth, were a sorry sight. We had to go over ntire lot in the cellar. I think this about \$10 or \$12 delivered in bags more to us to know how others failed.

Potato Account, 1910. Five Acres in Young Orchard.

Expenditures.	
Fall and spring 35 loads manure at 50c on ground	

15.00 7.00

14.10 $\frac{1.44}{3.08}$ $\frac{1.75}{1.75}$ Labor
July 27, hoeing and pulling weeds..
Oct. 24-26, digging potatoes by hand,
and putting in car and cellar..
Commission

Total\$150.68 Receipts.

Total\$167.37

Balance, net profit on crop.. \$ 16.69 These potatoes followed a sod, mostly able in the young orchard; so we tried timothy, timothy, which was kept over on account of a failure of the clover seeding. They were planted in hills 21/2x3 feet, with a 41/2 foot space on each side of tree tion is concerned, (it is usually advised to rows both ways, which would take up have them follow clover), the soil on about one-fourth of the ground. These strips next the trees were sowed to oats in August to hold the snow and protect been recently purchased from a party the trees. The culture given was also somewhat different than would have been given had they not been in the orchard, and a certain part of it should really be charged to the orchard account. However, this account will close into the orchard account, in common with other explain several things which will appear crops from in the orchard. Where trees in the accounts, for instance the light are the main crop other things are made subservient to their needs.

It will be noted that there are a large number of "small and sunburned potatoes." These were mostly sunburned ones, The ground was so hard that the tubers were forced up, the rains washed the soil above them off and quite a number of tips were left bare. We thought some of hilling slightly with a shovel cultivator. but it was so dry at the time that we feared it would do as much harm as good. However, I believe if this had been done after the August rains, it would have saved some of this loss. The tubers were too large and not ripe enough to be first-class stock, so they did not bring a top price, but we cleared 31 cents, or one cent per bushel more than we could have sold them for here, and did not sort them as closely; besides it saved freight on some Ben Davis apples that were sent at the same time.

Although this is not a very encouraging outlook for potato growing, I believe we shall try about the same amount next year, and if possible give them a more congenial location. If our new seeding looks well enough in the spring we will have some good clover sod on a field more loose and sandy, which should be an ideal location for potatoes. S. B. HARTMAN.

GROUND PHOSPHATE ROCK.

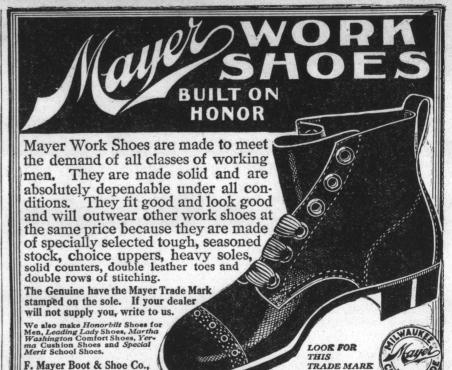
I understand that you have used ground phosphate rock. Will you please tell me what it costs per ton and is there a dealer near who handles it? I would like to get some but am not ready just yet to buy it by the car load.

Charlevoix Co.

I. W. B.

I have used ground phosphate rock as an absorbent in the cow stables and other stables. I have applied it as a top-dresswhich was purchased from a neighbor, ing on different crops, I have put it on cost 85 cents per bushel, or more than at the rate of 1,000 lbs. per acre on clover sod and plowed it down for corn, but I know very little, after all, of its real worth or the benefit of it. It does not act might have sold in the fall at 25 cents quickly like commercial fertilizer. You and come out with a loss of ten to fifteen cannot put it on and see the results at You have got to have faith and wait for results. It is a good absorbent besides we agreed, in common with oth- in the cow stable, but chemists now tell ers, that the price was too low, so we us that very little of it is made available holding them. Buyers purchased by the manure, and also that it does not many frosted potatoes during the cold serve as a trap for volatile nitrogen, weather, then when warm weather came therefore, it would be no better to use in

Ground phosphate rock or floats, costs is about the worst showing we have ever Michigan. I do not know where you made on any kind of crop, but I believe could get it. I coaxed our dealer at that we will do well to study some of Coopersville to buy a carload a couple of these failures, as well as the phenomenal years ago, because I wanted to try it. successes that are paraded by white-shirt Upon my guaranteeing to take all that writers and land agents in catalogues, he could not sell to somebody else, he newspapers, and some farm papers. It ordered it, and I think I have used the may be worth more to us to know where whole carload with the exception of a we have failed than to know how others ton, or a ton and a half. He did not have succeeded, and it may be worth still seem to be successful in selling it to anybody else. I still have a small amount of this left and we are using it as an absorbent in the stables. I know of no one handling this product and do not think it would be profitable to use it unless it could be purchased in car lots, because in less than car lots the freight would be prohibitive. COLON C. LILLIE.







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THE MICHIGAN FARMER.

THE INTERNATIONAL.

(Continued from first page). commercial scale or as a side issue in his general scheme of farming.

In this connection the opinion of Richard G. Carden, the noted Irish judge who placed the championship award in the fat this department of the show. It was, cago he said.

"The car load lots were beyond all belief in quantity and uniform quality to people across the water, who run live the beef breeds were strongly represent-stock on grass the year round. The Am- ed, the Shorthorns carried off premier beef.'

class was won by A. A. Neale, of Colorado, on a fine load of Shorthorn calves. The Fat Sheep Classes.

car load exhibits naturally attracted more upon in the following number. attention than the display of individual fat sheep. The entries of car load lots draft type, exceeded anything ever seen of both sheep and lambs were more numatic Chicago, and in some of the classes erous than for some years and the average that the largest and best rings ever shown in erage quality was very good indeed America were brought together in the Michigan has the honor of providing the closest competition for honors, a descripmaterial for the grand championship in this department. The grand championship car load of fat sheep was exhibited by Benj. Conley, of Marshall, Mich., who has been an exhibitor in the car load classes since the International was first organized and has previously won some important prizes. His exhibit at this year's show was a very well finished load of native, grade, Shropshire clipped lambs. This was the only load of clipped stock in the show but there was strong competition in the range lambs shown by A. J. Knollin, grade Shropshires bred in Idaho, and the range and native brea champion yearlings, the first of which were Idaho crossbreds exhibited by J. O. Finley, and the second, grade Shrop-shires shown by McFadden & Claxton, of Illinois. It is a credit to the Michigan sheep industry that the grand championship car load of the 1910 International were not only fed but also bred in our

show was a Southdown yearling exhibited by Huntlywood Farm, which is a part of Sir George Drummond's estate. The cut of the winner, presented on this page, shows him to be of a rugged type for the breed. His chief competitors from among the ring of thirteen champions in their respective classes from which the winner was to be picked were a yearling Hanmpshown by Renick Bros., and a Shropshire shown by J. Lloyd Jones, the Hampshire winning the reserve championship. The winning of this award by the Huntlywood farm exhibit is notable from the fact that at the last seven In-

In the car load hog classes for fat hogs, Rollman, of Illinois, and the Chester Whites that won in the class for loads averaging 150 lbs. and under 200, exhibited by J. W. Crabb, also of Illinois.

In the fat barrow classes the Berkshire breed won the grand championship on the first prize barrow in the class for barrows under 18 months of age, shown by Sheffield Farms, of Ohio. This barrow breed and tipped the scales at 440 lbs. His hottest competitor was a Poland China weighing 175 lbs. more than the

pen of barrows with a selection of Polands.

The Breeding Classes.

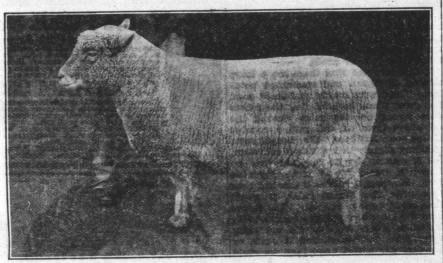
It is a significant fact that this year's were of better average quality than in previous years as well as more numerous.

In the cattle department, while all of ed, the Shorthorns carried off premier erican stockmen have the right idea in honors in the final competition, in the finishing their stuff early, making baby winning of the grand championship of the show for a bull of any breed or age, by The grand championship in the feeder Ringmaster, a two-year-old entry owned by White & Smith, of Minensota. This department of the show is worthy of more extended comment than space will In this department of the show the permit in this issue and will be touched

The display of horses, especially of the

hibited by John Francis & Sons, of Illinois, having reached the limit in this regard. who also won the grand championship on Under ordinary conditions it is a safe conclusion, however, that one could not pasture and grow winter feed for 600 sheep on 100 acres of land. If the coarse or middle-wooled breeds are kept, 600 International excelled in the exhibits of sheep would be about equal in live weight breeding stock in all departments of the to 100 cows, and would require about the show, as well as in the number and qual- same amount of feed for their mainteity of the fat animals shown. Space is nance. Most farmers think it is imposnot available in this issue to give an sible to keep one cow per acre, yet there adequate description of the exhibits in are individual examples of cases in which two cows have been kept per acre of land steer class, will be of interest to our however, conceded by many good judges and all the rough feed produced which readers. Before his departure from Chi- among those present that the exhibits was required for their maintenance. This was probably approaching closely to the limit of production in this line. But the cattle were not pastured, and cattle are better adapted to maintenance by soiling than are sheep. It must be remembered that sheep graze closely, and that one should not overstock with them to an extent which will make too close grazing necessary at any season of the year, else the production of the pastures will be impaired, and the object sought to be obtained of making the land carry as many sheep as possible will be defeated. Of course, a great deal will depend upon the character of the land, which is not mentioned in this inquiry, but in order to help this subscriber and others who have similar schemes in mind let us do a little

In the first place, it is the writer's



The grand champion fat wether of the Grand Champion Fat Wether at the International. A Yearling Southdown of Rugnow was a Southdown yearling exhibit-

ferred.

Altogether the eleventh International may be considered to have recorded the followed out this plan. Let us suppose greatest success of any similar event in that the venture is started with 100 ewes, the history of the show, and its beneficial and that an increase of 100 per cent is influences should be widely felt throughout the stock producing sections of the bred the first year, and the ewes are country, if a study of the crowd in at-sold after they have produced four lambs tendance is any criterion of results.

FEEDERS' PROBLEMS

How Many Sheep Per Acre?

ternationals exhibits from the same farm have won five championships and two reserves with their highly bred and perfectly fitted Southdowns.

The Southdown breed won another testimonial to its quality in the championship award in the class for fat wethers shown by agricultural colleges, the award in this class going to the University of Wisconsin on a Southdown, while the reserve championship was won by the University of Wyoming on a Shropshire-Leicester crossbred wether.

Altogether the individual fat classes in the sheep department were filled with animals of high quality, and the exhibit was a most interesting and profitable one to study.

The Fat Hog Classes.

In the car load hog classes for fat hogs, I. D. Weters, etc. Illineis was the same farm have won five championships and two reserves with their highly bred and perfectly fitted Southdowns.

How Many Sheep Per Acre?

Will you kindly state in the Michigan Farmer how many sheep I can successfully keep to the acre, and their inferances? Can I pasture and raise feed for 600 head of sheep to 100 acres of land? By starting with 100 sheep and 120 acres of land, can I keep all the increase for the years, by just selling the old ewes and the wethers? I mean, will the wool and the wethers? I mean, will the wool and the wethers? I have figured considerably on it, but would like your opinion on the subject. It seems to me that the wool and the wether lambs would buy my land as fast as I needed it to take care of my increase for a period of ten years, after about the second or third year after about the second or third year.

The Fat Hog Classes.

In the car load hog classes for fat hogs, I. D. Weters, of Illineis was the second or the second or third year.

The fat Hog Classes.

The fact can I pasture and raise feed for 600 head of sheep to 100 acres of land? By starting with 100 sheep and 120 acres of land. Genese Co.

The inquirer has the right dea of going in the class for fat wethers.

Will you kindly state in the Michigan farmer how many sheep I can years, a

J. D. Waters, of Illinois, won the grand into the sheep business. The best way be a get-rich-quick proposition and no championship of the show on his first to go into any department of the live branch of agriculture will come up to prize load of Poland Chinas, averaging stock business is to grow into it. Those that definition. But sheep are among the for the honor were the Hampshires that scale without any previous experience, live stock which may be maintained on won first in the class for hogs averaging depending upon wild lands for pasture the farm, and with intelligent care will 250 lbs. and under 350, shown by L. R. during the summer and with inexperi- make a good big profit for the owner who enced help to care for their flocks, gen- understands the sheep business. erally go out of it with a smaller bank account, but richer in experience. In fact, when they get their bitter experience acres, say a flock of 50 ewes. Then, as and go out of the business, they have experience is gained and the limitations gained just the knowledge that is essential to success in the business. Experience is always better than theory as a basis for any business enterprise, and to but the best of them, and using purewas a fine specimen of the Berkshire attempt to answer the questions asked in bred rams to secure a desirable degree of this inqiry would be theorizing pure and uniformity in the ewe flock. simple. It is impossible to set the limit may think it will take him a little longer of production or of maintenance for live to attain his ambition by starting in this winner, but lacking his smoothness. This stock per acre on good land. It is certain way, but there are plenty of examples

tion of which contests must also be de- opinion that this subscriber does not realize what a large flock of sheep he would have at the end of ten years if he that the venture is started with 100 ewes made each year. If the lambs are not sold after they have produced four lambs each, if one-half of the lambs dropped are ewe lambs, there would have accumulated at the end of ten years a flock of over 1,000 ewes, all young and in their prime, while nearly 500 would have been disposed of and there would have been nearly 1,400 wether lambs to sell. If the ewe lambs were bred and the same proportionate increase maintained, the progression would have been still more rapid, and there would be a flock nearly twice as large on hand. But this is just theorizing, and with the ordinary care in varying seasons, the management of such a large flock would have to be extraordinarily skillful to get anything like such results. Neither is it a fair supposition, that a flock of sheep so kept would afford sufficient revenue to buy more land and pay for it from the profits of the flock, aside from the cost of their care as rapidly as they increased. This would mean that the sheep must make a profit equal to 331/3 per cent of the value of the land on which they were kept each year. It would into the sheep business on a large most profitable of the different kinds of the writer's opinion it would be far better to start with a smaller flock on this 120 of the farm for sheep husbandry are learned, increase the flock gradually, not by keeping all of the ewe lambs raised was the breed champion in his class, ex- that we American farmers are far from to prove that this would not be the case. when you are writing to advertisers.

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ALWAYS mention the MICHIGAN FARMER

of November 9, page 4, Clyde A. Waugh introduces an important matter in conto the matter of community breeding.

The subject is one that has attracted considerable attention, and is being tried under the able guidance of the live stock department of the M. A. C. From the point of theory it appears to promise excellent results. It will certainly aid in disseminating good blood, through the sires, in many communities. The longer chance. the plan is operated the better will be been used only one term of years, the

that the neighborhood boar has been tried the neighborhood hog improvement proment of any kind of farm stock. The my mind some important facts gained than the patronage of one man. by many years of experience in breeding

The boar should be kept away from the If he has been properly other hogs. In the issue of the Michigan Farmer raised and handled, he will be contented in a yard, or small field by himself, and enjoy a comfortable nest by himself. It nection with live stock breeding, and live is certainly a great mistake to turn a stock improvement, under the head of young boar in with a lot of larger hogs "The Neighborhood Boar." The sugges- and compel him to fight his way. The tion of a few men buying a boar and all improved hogs are not produced for that sharing in the benefits derived therefrom purpose. It is for the character as to points to the matter of community docility, and the blood they carry that the boars are purchased. A young boar is easily ruined by being turned in with other boars. Those who do not understand the difference between a well-bred pig that has a tender skin, and a roughand-ready mongrel will not appreciate it, but the former has a superior value as a breeder, and will prove it if given a fair

Another thing should be insisted on, the results. But if the experiment were and that is that a sow should have but to be discontinued after the sires had one service. It is as good as, and often better, than more. It saves the boar, and benefits would be so pronounced that the he will be a valuable sire much longer, lesson would remain in the minds of the than if allowed to remain with the sows farmers of each community where a sire longer. Every breeder who has had exhas been introduced, for many years perience understands this very well. I after. have had neighbors, who wanted to run Although the neighborhood sire, as far my business, demand that their sow be as cattle are concerned, has attained a allowed to lay with my boar during the considerable headway, I am not aware night, and, when refused, go away and say they would never come near again. to any great extent, yet it seems that If I had acceded to such demands, my boar would not have been in proper conposition looks as feasible as the improve- dition when I wished to breed my own sows. A few good litters from my purearticle by Mr. Waugh has awakened in bred sows were worth much more to me

As to charging a neighbor for the use hogs and handling boars, and I will ven- of a sire, I see no reason why it should ture to give some of them, so they may not be done. The service is a commodity



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much experience.

stock are not up to a high standing of satisfactorily adjust them. excellence. If the breed chosen is one to be used extensively should be of a boar at a very small outlay in costs. ly irritable, bordering on, and often ap- terests. proaching, viciousness. It is better to pay a man for keeping a boar a whole year than to have the animal get cross.

the boar, than to change hands. The boar knows his keeper, and if he is kind to him he will become attached to him and will show his appreciation of kind mutton sheep. attention. A change in keepers makes the boar suspicious, and will often be shy when called upon for service, while with his regular attendant he will appear free and easy, doing his bidding with apparent pleasure.

benefit those who may undertake the of real value, as much so as a bag of community proposition without having had wheat; and if one neighbor were to ask another for a bag of wheat, and expect The first step is to agree on the breed that it be given him, the neighbor asking that will be adopted, and then select the such a favor would be set down as a boar. The selection is an important step, beggar. A reasonable consideration of for all boars that are from registered such matters ought to set them right, and

The community proposition has much of the lard type of hogs, then by all to commend it. It gives each individual means get a growthy, compact animal, farmer in that community an opportunity with good, heavy quarters. Every sire to get improved blood from a pure-bred good type of the breed represented. If will produce a uniform class of stock in it is of the bacon type, then get good the whole neighborhood, which will endepth of chest and sides, together with hance its value. By the use of a good, the thriftiness that should accompany all pure-bred sire, all the hogs in the neighmeat animals. In the second place, the borhood will have an enhanced value, beboar should be kept at once place. Chang-cause better gains can be secured from ing places "breaks him up," as we ex- the same amount of feed than can be press it, and he will not be as quiet and realized from the mongrels or haphazcontented, or do as good service, if com- ard bred animals. It will do away with pelled to change abiding places often. opposition and competition often met Sometimes a change in farms with a with, and enable neighbors to work harboar will make him uneasy, and frequentmoniously and for each other's best in-

Wayne Co.

N. A. CLAPP.

To stimulate the production of Christ-In the third place, it is by far better mas lambs the United States Bureau of to have one man attend to, and care for Animal Industry has imported a flock of sheep from the Barbadoes Islands. These sheep are said to be the most prolific breeders known, but are not very good mutton sheep. It is planned to cross them with a good breed of mutton sheep, such as the Southdown, and the fact that they will breed almost any month of the year lends hope to the plan. This is the first experiment of the kind ever made and the first time Barbado sheep, which have a hair covering instead of a wool coat, have been brought to this country.

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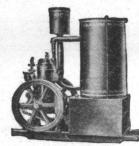
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CONDUCTED BY W. C. FAIR, V. S.

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

Indigestion.—I have a five-year-old horse that is just as well fed as his mate, but he is thin and the other horse fat, both eating the same amount of food. G. R. F., Brown City, Mich.—Mix together equal parts ground nux vomica, ground gentian, cinchona and powdered rosin and give him a teaspoonful at a dose in feed three times a day.

Sore Eyes.—I have a young mare that is troubled with sore eyes. She seemed to be all right up to six weeks ago when one of her eyes became sore and some time later the other one commenced discharging. I have applied weak brine and warm milk, but she is no better. L. D., Frederich, Mich.—Apply some finely powdered boric acid to sore eyes twice a day and give 2 drs. Fowler's solution at a dose in feed two or three times a day.

Laryngitis.—I would like to know what can be done for our pigs that are troubled with a cough. C. F. M., St. Johns, Mich.—Give them some ground ginger and powdered licorice in their feed. It would be no mistake to increase their food supply.

Chronic Looseness of Bowels.—I have a

chem on mistake to increase their food supply.

Chronic Looseness of Bowels,—I have a 13-year-old mare that is troubled with diarrhoea and I would like to know what to give her. F. F. L., Dammagville, Mich.—Give her a teaspoonful of powdered sulphate of iron and two tablespoonfuls ginger at a dose in feed two or three times a day.

Sore Scrotum.—Have a yearling bull that has a sore in sheath which hurts him at time of service, and I would like to know what can be don't complete agrowth of this kind. W. Ct. Make Rapids, Mich.—Either remote it with a knife or burn it off wira a bedon't countries with a knife or burn it off wira a bedon't with a knife or burn it off wira a bowels. F. H. D., New Bostwould help correct their trouble; and would help correct their trouble; and give some ginger in every feed. The food supply is what causes most of the trouble.

Pin Worms.—I have a five-year-old horse that is troubled with pin worms and have given several kinds of treatment; none of them seem to have done him much good; I have also given him condition powders. A. C., Bedford, Mich. Dissolve I oz. of powdered sulphate of iron in three or four quarts of water and wash out bowels daily for four days.

Obstructed Teat—Colt Scours.—I have a heifer that has a movable bunch in lower part of quarter, which seems to have a heifer that has a movable bunch in lower part of quarter, which seems to reach him. W. A. G., Lansing, Mich.—Apply iodine ointment to bunch once aday and perhaps you had better use miking tube. Give the colt two runch and is above a gelding whose sheath — and see the aday and perhaps you had better use miking tube. Give the colt two runch and ose twee a day until his bowels tighten, then give less meeds.—Swollen Sheath—Cattle days. Howeld and hold with a looseness of the bowels were troubled with a cough last winter but of over the edono or or of the near the colt work of the nerve on each since burt of the nerve on each since him and the part of the nerve on each site of the part of the part of the part of th

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White & Buff Orpingtons, White Wyandottes and white & Bull Orpingtons, White Wyandottes and Leghorns. Eggs in season 10c each. MICHIGAN SCHOOL FOR THE DEAF, Flint, Mich.

TOP NOTCH HOLSTEINS op Notch registered young Holstein Bulls com-ling in themselves the blood of cows which now d and have in the past held World's Records for k and butter fat at fair prices. Howell, flich. MCPHERSON FARMS CO., Howell, flich.

FOR SALE—2 yearling Holstein-Friesjan bulls. Pedjgrees and photo on application W. C. JACKSON, 715 Rex St., South Bend, Ind.

HOLSTEIN BULLS FOR SALE—Also Duroc Jersey pion at Chicago, 1909. E. R. Cornell, Howell, Mich.

HOLSTEIN BULL CALVES—Choicest A. R. O. breeding. COLE BROTHERS, Ypsiland Farms, Ypsilanti, Mich.

NOTHING BUT HOLSTEIN BULLS FOR SALE. Sir May Hartog Posch No. 37604. A. R. Three Nearest Dams Average 26 2 lbs, butter in 7 days, Sound, Sure, Gentle, and one of the finest individuals of the breed. If you want a Herd Header come and see this one. I can please any breeder with a bull calf two to ten months old. I want to sell TEN before Nov. 1st, Help me do it by buying one. L. E. Connell. Fayette. 6.

Holsteins—Cows, Heifers, Bulls. If we have what you want we are bound to please you. LONG BEACH FARM, Augusta, (Kalamazoo, Co.).

ELMHURST FARMS, SMITH & WARNER, Props. ford Down Sheep. Have 15 Choice Ram Lambs for sale, Address B. C. Banfield, Supt. Owendale, Mich.

HEREFORDS—Both sexes and all ages for sale. Also Poland-China hogs. ALLEN BROS., Paw Paw, Mich, HEREFORDS—3 yearling thoroughbred bulls for sale. Also one 2-yr. old that is recorded. H. D. HALL, Martin, Mich.

Register of Merit Jerseys. Offical yearly record. A fine of 483 pounds and upwards of butter. T.-F. MARSTON, Bay City, Michigan.

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

COLON C. LILLIE, Coopersville, Michigan.

To the highest bidder, 2 Jersey Bulls, tuberculosis tested. One a first prize winner as calf and yearling at Michigan State Fair. Dam, a Register of Merit Cow. Send bids to ROBERT BARNEY, R. No. 3, Traverse City, Mich., before December 23, 1930.

For Sale—Registered Jersey Cattle, either also Reg. O. I.C. hogs. C. A. BRISTOL, Fenton, Mich.

For Sale Four registered POLLED DUR-old, All Reds. J. E. CLARK, Milford, Mich.

Dairybred Shorthorn Bulls for sale. 7 mo. old. also J. B. HUMMEL, Mason, Michigan.

SHEEP.

For Sale 40 Young EWES and 20 EWE LAMBS, Sell cheap if sold at once, J. B. GARDNER, L. Box 437, Cadillac, Mich.

Hampshire, Southdown, and Cotswold Rams and THE CLOVER BLOSSOM FARM, Port Austin, Mich.

HAMPSHIRES—Ram lambs ready for service; also 2 yearlings cheap. C. D. WOODBURY, Lansing, Michigan.

ROCKLAND Farm Delaines are in field form, strong, rugged and well covered. Prices right. Tell us your wants. D. E. Turner & Sons., Mosherville, Mich.

DELAINE RAMS, also 50 registered Delaine ewes which must be sold before Dec. 1. Great bargain for some one. S. J. COWAN, Rockford, Michigan.

Cooper's English Sheep

won 420 prizes this year at State Fairs. Shropshires, Oxfords, Hampshires, Southdowns and Cotswolds—the best of each—several hundred to select from. We import more than all others combined, thus can offer the most attractive prices and terms. Sheep shipped on approval—see them before you buy. Write for our handsomely illustrated Book of Winners. It's FREE for the asking.

wm. COOPER & NEPHEWS PEDIGREE STOCK CO. 64 W. Illinois Street, CHICAGO, I

OXFORD RAMS And ewes from Imported Rams and ewes bred to same. Address B. F. MILLER or GEO. SPILLANE, Flint, Michigan Oxford-Down Sheep and Polled Durham cattle for sale, A. D. & J. A. DE GARMO, Muir, Mich.

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

O WING to heavy storms and blocked roads the sale advertised for Nov. 30 came near being a failure. I sold 5 pens, a total of 25 aged ewes at prices ranging from \$8.25 to \$12 per head. The balance are still for sale. I have a few 4 and 5-year-old rams I will sell for less than half price, viz.: \$10 and \$12 per head. They are good ones. J. Q. A. COOK, Morrice, Mich.

Reg. Rambouillet Ewes for sale or exchange for Holstein heifers C. E. Burlingame, Byron, Michigan.

Shropshire Rams all sold. Eight aged ewe willis S. MEADE, R. F. D. No. 3, Holly, Mich.

FOR SALE—Ten bred registered Shropshire yearling and two-year-old ewes, Prices right. Jones & Morrish, Flushing, Michigan.

CHOICE Registered Shropshire and Cotswolds, year-ling ewes, ram and ewe lambs, Yorkshire and Berkshire hogs, Clyde Stallions and Fillies and Welsh ponies. Write for prices. Arthur L. Milne, Green River, Ont

SHROPSHIRE HALL STOCK FARM Ias for sale twenty-five (25) very choice bred yr. ewes, few good aged ewes, one choice two-year-old am, also three good ram lambs.

L. S. DUNHAM & Sons, Concord, Michigan.

INGLESIDE SHROPSHIRES—Rams of all ages. Bree ewes, singly or in lots H. E. Powell, Robt. Groves, Shepherd, Ionia, Mich

HOGS.

Durocs & Victorias Growthy Spring Boars & Gilts of choicest breeding from Prize Winners. M. T. STORY, R. 248. Lowell, Michigan.

BERKSHIRES of individual meriand best known line of blood at moderate prices.

M. D. & G. B. Johnson, Plymouth, Michigan

HUPP FARM BERKSHIRES!

WON 189 PRIZES IN 1909. Stock of both sexes and all ages for sale. Breeders of Guernsey Cattle, M. B. Turkeys, Barred Rock Chick-ens, Pekin Ducks. GEORGE C. HUPP, Manager, Drawer A. Birmingham, Michigan.

BERKSHIRE Boars ready for service Combines blood of MASTER PRICE and PREMIER LONGFELLOW. Best on earth C. D. WOODBURY, Lansing, Michigan.

Berkshires—Two yearling sows bred for spring farrowing. A few choice July gilts & boar pigs for sale. A. A. Pattullo, Deckerville, Mich.

BERKSHIRES Unexcelled in breeding. Select ed boars, sows and gilts. Choic fall plot. T. V. HICKS, R. No. 11, Battle Creek, Mich A DAMS BROS., Litchfield, Mich., breeders of Imp. Chester White and Tamworth swine, service hears sows breed or

White and Tamworth swine, service boars, sows bred of either breed. Shorthorn Cattle, Buff Rock, Buff Wya W. Orpington, Ckls. all breeding stock leading winner DUROCS-20 growthy spring Boars ready for service, 70 Bred Sows of excellent

quality, 60 fall pigs. Inspection invited. Write for prices. J. C. BARNEY, Coldwater, Michigan.

DUROC JERSEYS.
CAREY U. EDMONDS, Hastings, Michiga

A FOR SALE, Duroc Jersey Service Boars M. A. BRAY, Okemos, Ingham Co., Mich. Indpt phone

Capitol Herd DUROC-JERSEY Swine, establish for sale. J. H. BANGHART, Lansing, Mich.

MPROVED CHESTERS—Young boars ready for service, orders taken for sows bred for spring farrow. Also Holstein Bull Calves of the best of breeding. W. O. WILSON, Okemos, Mich. Both Phones

O. I. C's—Hogs all ages for sale, sows bred or open, boars any age or size. Shipped on approval. HARRY T. CRANDELL Rolling View Stock Farm, CASS CITY, MICHIGAN.

Thoroughbred Duroc Jerseys able prices. GLLTS, seven months old, fashionable breeding at exceptionally low prices. GLLTS and BOARS, the weeks old, fashionable breeding at exceptionally for immediate delivery. Address, IRWIN & BERKEY, 208 East Lincoln Avenue, Goshen, Indiana.

O.I. C. Hogs all ages. Sows bred. and more. H. H. JUMP, Munith, Michigan.

0.1.0 —Spring boars all sold, have 2 good June boars either sex. A. NEWMAN, R. No. 1, Marlette, Mich.

O. I. C. Bred Sows. Boars ready for ser vice, from World's Fair Winners Glenwood Stock Farm, Zeeland, Michigan. Phone 94

0. I. C. Swine-Spring farrow, of both sexes, of each. E. E. BEACH & SON, Brighton, Mich. R, No. 3.

O. I. C.—Sow pigs all sold, but offer some extra good able prices. FRED NICKEL, Monroe, Mich. R. No. 1. **0.1. C. Swine**—Spring, summer & fall farrowed, both sexes, breeding and type right. Geo. P. Andrews, Dansville, Ingham Co., Mich.

0. I. C. Early Fall Pigs Low prices. Only C. J. THOMPSON, Rockford, Michigan.

O. 1. C'S FOR SALE—An extra good lot of last weighing from 150 to 300 lbs. I yearling boar and 30 fall pigs. OTTO B. SCHULZE, Nashville, Mich.

Grand Son of Jackson Chief the World's Champion and Grand Champion O. I. C. Boar. Write for live let live prices on pairs not akin.

A. J. GORDEN, R. No. 2, Dorr, Michigan.

RECORDED MULE FOOTED HOGS e said to be immune from hog cholera. Stock of all es for sale. John H. Dunlap, Williamsport, Ohio.

POLAND CHINAS—Boars of the best of breed ing and of great quality E. D. BISHOP, Route 38. Lake Odessa, Michigan

Poland-Chinas Boars ready for service spring pigs, either sex Write L. W. Barnes & son, Byron, Shiawassee Co., Mich

Poland-Chinas home of the Michigan State Fair-winners, you 24 prizes at Detroit in 1910. Pigs of both

exes for sale, sired by our prize-winners.
M. T. BEATTY & SON, West Unity, Ohio.

C. BOARS, GILTS, **WEANED PIGS at Right Prices.** Shipped c. o. d. with pedigree.

WM. WAFFLE, Coldwater, Michigan. Large Type P. C's—largest in Michigan. Order a fall pig early from my great herd and get choice. None better. W.E. Livingston, Parma, Mich.

POLAND-CHINAS either sex, all ages. Some good at a low price. P. D. LONG, R. F. D. No. 8. Grand Rapids, Mich.

Poland-Chinas Large styled, growthy spring pigs, also and lowest prices. Robert Neve, Pierson, Michigan.

P. C. BOARS-Big growthy fellows, worth the money. WOOD & SONS, SALINE, MICHIGAN.

12 P. C. Boars ready for service, sired by a Son of the defeated Lady Louise. Z. Kinne, Three Oaks, Mich. Poland-China Gilts bred for spring farrow. Fall Pigs and S. C. W. Leghorns. Cockerels 11 each. B. M. Wing and Son. Sheridan, Michigan.

Our P. C. Boars were sired by "Victor" by "Out-Fair: dams by Medler Second, Oakwood Medler and others. A few large Minorca Cockerels. Satisfaction guaranteed. R. W. MILLS, Saline, Michigan.

BEST BIG TYPE POLAND-CHINA PIG Michigan. March farrow litter 13 fit to head any rd. Price \$50; bred sows \$55; Aug. pigs, \$15; Sept. ss, \$10. Pairs and trios not akin. Bell phone. J. C. BUTLER, Portland, Mich.

FOR SALE—Yorkshire Boar Pigs August farrow. Fine, thrifty fellows. \$15, register THE MURRAY-WATERMAN CO., R. 6, Ann Arbor, Michigan. Bell phone.

Watch this Ad. and order a registered YORK-& SON, R. F. D. No. 1, Hersey, Mich. Bell Phone.

Large Improved English Yorkshires.
The hog that makes good.
Gilts bred for next spring farrow. A choice lot of fall pigs, pairs not akin. Satisfaction guarantee fall pigs, pairs not akin. COLON C. LILLIE, Coopersville, Michigan.







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The first or second \$1.00 can cures. The third can is guaranteed to cure or money refunded. \$1.00 per can at dealers, or express prepaid.

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HORSES You take no risk in buying Craft's Distemper and Cough Remedy. It is

SHEEP sold on a positive money back guar-antee. It is so certain we let you ANDDOGS -try it on any case of Distemper,

Cough, Cold, Pinkeye, etc.—ii if fails to do what we claim—take empty bottle back and get your money. That's fair, isn't lift lift your dealer CRAFT'S a Valuable Horse Books Free.

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Increase Stock Profits

cut roots with dry feed—double its keep stock healthy, and they pay a r profit on less feed. Roots increase and digestion. And the

Banner Root Cutter is the only machine making the "Non-Choke Curve Cut" feed from roots, etc. Self feeding; cuts fast and easy; separates dirt from roots. Made in? styles and sizes. Book Free. O. E. Thompson & Sons, Ypsilanti, Mich.



Star Grinders, sweep pelt, make more money for the mer than any other implement



Chicago Scale

of which is the walk.

horses, are what are known as the saddle on the point raised. gaits, in the most important of which there is as wide a range of excellence as but if precaution is taken and the recepat the faster gaits of trotting and run- tacle in which the pork is packed is abning. The average rate of speed at which ning. The average rate of speed at which solutely free from germs of any kind and horses walk in harness or under saddle a good quality of salt is used, as recomis probably no more than three miles an hour while a really good walker can cover and sweet, and the writer has used this five, and in rare cases, six miles under method because of the good results which the saddle. Bring the easiest gait on both have been secured by it. horse and rider, such horses will make wonderful journeys without distress. What is known as the fox-trot is also a very desirable gait, and easily taught most desirable gait, and easily taught most horses by urging them slightly beyond a sheep in the Chicago market has been walk, and when they strike the right gait hold them on it; it is a trifle faster than all feeders should be dipped before being hold them on it; it is a trifle faster than a walk, and a near approach to a single sent to country points.

came necessary.

en to eight miles an hour. Horses will learn to like the gait, and it is an easy one for the rider, and next to the walk the best long distance gait. Single-footing is nearly the same as the fox-trot, and higher present glutted markets change to smaller supported to the same and higher present glutted markets change to smaller support and higher present glutted markets change to smaller support and higher present glutted markets change to smaller support and higher present glutted markets change to smaller support and higher present glutted markets change to smaller support and higher present glutted markets change to smaller support and higher present glutted markets change to smaller support and higher present glutted markets change to smaller support and higher present glutted markets change to smaller support and higher present glutted markets change to smaller support and higher present glutted markets change to smaller support and higher present glutted markets change to smaller support and higher present glutted markets change to smaller support and higher present glutted markets change to smaller support and higher present glutter and higher p ing is nearly the same as the fox-trot, and is an exact intermediate between the walk and the trot, each foot appearing to move in a sort of go-as-you-please manner, and considering that it is an exceptionally easy gait for a rider, and that an average single-footer will cover nine or ten miles per hour, it is worthy of cultivation. The rack and pace are nearly alike, the only difference being in the former the hind foot reaches a trifle in advance of the fore foot on the same side while at the latter gait the feet on each side move exactly together—a purely lateral motion. Either the rack or the pace in go and the form and the present glutted markets change to smaller supplies and higher prices.

Farmers were never in more independent circumstances than now and their course in holding on to their corn, with a view of feeding it largely to stock, is the farmers are borrowing money from their home banks to purchase cattle, declaring that they will not accept the low prices now offered by the country for lean cattle. Meanwhile the country banks have been drawing down their balances with Chicago banks in order to be able to accommodate the farmer patrons.

For a long time fat little yearling steers and the form of the country banks have been drawing down their balances with Chicago banks in order to be able to accommodate the farmer patrons. side move exactly together—a purely lateral motion. Either the rack or the pace is much more desirable than the trot under the saddle, and the pace is at least as fast, if not faster, than the trot. In addition to possessing all the above saddle gaits the model saddle-horse should be level headed, courageous and kind and should be an active and easy mover at any gait, and have a sensitive mouth, respond readily to the touch on the bridle rein, be sure-footed, able and willing to trot, galop or run, as required, and, above all, sound upon his legs and perfect in the wind.

St. Joseph Co.

SALTING PORK FOR HOME USE.

Kindly advise the best method of salting down pork for home use. I have not had very good success in keeping it. Does shooting the hog have anything to do with it? Some claim that it does.

Antrim Co.

A. W.

There are a number of different methods of salting pork for home use upon the

sterilized by the use of hot water.

The writer's method of putting down pork is to use plenty of the best packing salt, putting in a thin layer of salt in the bottom of the crock then packing in a layer of pork tight, placing the pieces on edge and wedging them in as closely as possible, then put on another layer of salt and one of pork until the whole is packed down; then put a clean board or large plate with a heavy stone on top to weigh it down and pour strong brine over the whole. Of course, if pork has been salted in this manner in previous years the old brine will be available, and if this is used, it should be thoroughly scalded and skimmed to remove any impurities which may be in it. Pork which is packed in this manner will seldom need any further attention but in case the brine should appear to be bloody or contaminated in any way it should be promptly removed, scalded, skimmed and then replaced as soon as it is partially cooled.

Throughout most parts of Illinois, Indiana and Iowa stockmen are slow about and and Iowa stockmen are slow about

ITHE PERFECT AMERICAN SADDLE It is essential in killing hogs to have them bleed out thoroughly and if it is made the practice to shoot before stick-The most desirable points in American ing, it is possible that the blood vessels saddle horses are what are known as will not be as thoroughly drained as saddle gaits, therefore the most important would otherwise be the case, but the writer has never followed that practice The gaits, although not common to all and would not be a competent judge up-

Some prefer the dry salting method mended, the pork will keep wholesome method because of the good results which

LIVE STOCK NOTES.

foot.

The Kansas City Stock Yards Company
has increased the sheep yardage capacity
to 45,000 head. Marketings of sheep
walk to a trot, but will not keep it unless
trained to it. The speed differs from sev-

with it? Some claim that it does.

Antrim Co.

A. W.

There are a number of different methods of salting pork for home use upon the farm but in the writer's opinion the easiest and most satisfactory way is to put it down in a brine with plenty of salt, as it will require less attention when packed in this way than when preserved in any other manner.

The first essential in the keeping of pork so that it will come out sweet and wholesome is the absolute cleanliness of the vessel in which it is packed. The old system of using a wooden barrel has been largely superseded by the use of large earthen crocks, and with much better satisfaction as when a wooden barrel commences to become tainted it is a very difficult matter to get it in perfect condition for the keeping of pork, and in any event it requires very much more care than the earthen crock, which has a glazed surface and which can be easily set to the solution of the will sterilized by the use of hot water.

The writer's method of putting down pork is to use plenty of the best packing and shelp are largely and both water.

The writer's method of putting down pork is to use plenty of the best packing salt, putting in a thin layer of salt in great many sheep are being fed in the San Luis Valley of Colorado, the peach of the San Luis Valley of Colorado, the peach por being an average one. The flocks are put on feed in October, and by December the first marketings of fed sheep are put on feed in October, and by December the first marketings of fed sheep are being reput on feed in October, and by December the first marketings of fed sheep are put on feed in October, and by December the first marketings of fed sheep are put on feed in October, and by December the first marketings of fed sheep are put on feed in October, and by December the first marketings of fed sheep are put on feed in October, and by December the first marketings of fed sheep are put on feed in October, and by December the first marketings of fed sheep are put on feed in October, and by December

NERVES Scott's Emulsion

the same as babies. Babies can't take care of themselves, nor can

Babies cry for attention-so do nerves. Probably both are halfstarved for proper nourishment.

Give them SCOTT'S EMULSION.

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The most effectual remedy in use for the cure of ailments of horses and cattle is

GOMBAULT'S CAUSTIC BALSAM



This preferred remedy is prepared ex-clusively by J. E. Gombault, ex-Veterinary Surgeon to the French Government Stud.

As a HUMAN REMEDY for Rheu-matism, Sprains, Sore Throat, etc., it is invaluable.

Every bottle of Caustle Balsam sold is Warranted to give satisfaction. Price \$1.50 per bottle. Sold by druggists, or sent by ex-press, charges paid, with full directions for its use. Send of descriptive circulars, testimo-nials, etc. Address.

THE LAWRENCE-WILLIAMS COMPANY, Cleveland, Ohio

SAVE THE HORSE" SPAVINCURE.





Read what one of the most prominent bankers and business men of Northern Ohio did with "Save-the-Horse"

Cleveland, Ohio, March 18, 1910.

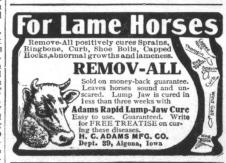
In the fall of 1908, at Lexington, Ky., I bought the finess saddle and carriage horse that it was ever my pleasure to own. During the winter he threw out as large a thoroughpin as I ever saw. I had heard of your remedy and bought one bottle, with the result that the lump on both sides of the hock is entirely gone and has been a matter of comment on the part of everyone that has seen it. The hock is today absolutely clean and there is no indication of thoroughpin, and I shall be glad to show this horse to show that there is no trace of the trouble. Very truly,

Prop. Murray Stock Farm, West Mentor, Ohio.

For fifteen years our contract has been the foundation on which every customer based his confidence in making his first purchase, and it has never been misplaced or betrayed. The marvelous power alone of "Save-The-Horse" permits of such an iron-clad contract. Send for copy. Write to-day for proofs.

This is a binding CONTRACT and protects purchaser absolutely in treating and curing any case of Bons and Bog Sparin, Billions, Billions, Group to We Carts, Spin, Rose Son, Windpurff, Sheshodi, Injured Tendons and all Lements. No server, Spin, Rose Son, Spin, Spin,

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Death to the Stomach Worms Guaranteed.

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Never Goes "Dead"

can't do it. Never balks, never refuses to go just when you need it most. Superior to all other 4 cycle engines. In other 4 cycle types if the engine misses fire the fly wheel has to make two complete revolutions before more power is created. The McVicker because of its superior principle, can explode charge on first compression stroke or always within one revolution of flywheel—just twice as quick as any other can do it. This means even power, more power, less wear and tear on engine, cannot possibly go "dead," and means that you can start your McVicker going, then go away and leave it without a bit of fear that it will stop. This is but one of the many points wherein the

McVicker Excels All

other farm engines. It's simpler than any
—has only 57 parts where all others have
180 or more, Carries 50 per cent more
sudden load, and because of being automatically regulated in every part uses less
fuel than any. And yet it costs no more
than balky, complex. fancy engines—a
great deal less than many of them.

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Send us your name and address on a pos-tal for catalogue, name of nearest dealer, and other valuable information of vital interest to every one who can use a gaso-line engine. Write us at once and we will include free, complete plans for a model farm power-house. Get your letter in the next mail

Alma Mfg. Co. Department 7

MICH.

DRIED BEET PULP

this year. You can not lose but you will profit by doing so. Used by many of the best feeders of the state who find it a valuable feed, selling below it's true feeding value as compared to the other feeds and grain.

Cheaper, and gives better results than bran for which it is substituted by the best dairymen.

which it is substituted by the test darrymen.

Forms a valuable addition to any ration, being vegetable the mechanical effect is good which causes a better assimilation of the other feeds,

Especially good with cotton seed meal as it counter, acts the objectional features of this feed. ed meal as it counter.

Dried Beet Pulp will cheapen any ration. Substitute it for a portion of the ration you use and you will secure better results in both production and improvement in the health of your animals.

Call on your dealer, if he cannot supply you write

T. F. MARSTON, Bay City, Mich. Center St., Michigan Broker for the Manufacturers.

H-E-C MEDICATED STOCK SALT

will positively expell the worms, tone up the system and promote a healthy and vigorous growth in horses, sheep, hogs and cattle. Very effective on horses, sheep and hogs, and can be obtained from all Grocers, Druggists, Feed Stores, and Elevators.

5-lb. sack 25c. 50-lb. sack \$2.50

10 " \$1.00 275-lb. barrel 10.00

If your dealer does not handle H-E-C Medicated Stock Salt, they can obtain same from

The Jackson Grocer Co. Jackson, Michigan C. Elliott & Co. Detroit, Michigan Musselman Grocer Co. Grand Rapids, Michigan Musselman Grocer Co. Traverse City Michigan Musselman Grocer Co. South Bend, Indiana National Grocer Co. South Bend, Indiana — MANUFACTURED BY—

H. E. COBB CO., Brooklyn, Michigan.

A GREAT OPPORTUNITY FOR DAIRYMEN.

IF YOU WOULD LIKE TO KNOW:

1. More about the cow herself.

2. More about feeding and caring for her.

3. More about keeping the records and doing the work of the co-operative cow testing associations: then take the short course at the Grand Rapids Veterinary College. Write for estalog and information. YETERINARY COLLEGE, Bept. B, GRAND RAPIDS, MICH.



CALVES RAISE THEM WITHOUT MILK, BOOKLET FREE J. E. BARTLETT, Co., Jackson, Mich.

CONDUCTED BY COLON C. LILLIE.

MILKING AN IMPORTANT FACTOR IN SUCCESSFUL DAIRYING.

The quantity of milk and butter-fat cows are milked. Cows may be ever so good or ever so well fed, if not properly milked the results will be unsatisfactory.

The reason why so much depends upon correct milking is the fact that good dairy cows possess a highly developed, nervous system with which the secretion (formation) of milk is intimately associated. Whatever, therefore, reacts upon the nervous system of the cow will react in like degree upon the secretion of milk. In this connection it should be understood that the secretion of milk takes place almost entirely during the process of milking. No matter how large a bag a cow may show just previous to milking, it rarely contains as much as a quart of milk, the distention of the bag being due to blood from which the milk is elaborated.

It is owing to her high nerve development that a cow is so very sensitive to excitement, boisterousness, unkindness, rough treatment and allied abuses which always react so unfavorably upon the production of milk and butter-fat. Especially disastrous are the effects of abuses administered just previous to or during milking. Yet how frequently are dogs allowed to chase the cows to the stable, and how often are attendants seen with clubs which they use as aids in getanimals are treated as offending brutes.

change in the manner of milking and, the udder. Since the stimulation of the shorter. udder by the milker is the cause of milk milkers as far as possible.

stimulation of the udder that fast milkers are practically indestructable. always obtain more milk than slow ones. In my experience with milkers-and I have employed many of them in the past I have never had a slow milker that proved satisfactory, no matter how faithfully or conscientiously the milking was performed.

One of the vital things in milking is to get all of the milk at each milking, that is, to milk a cow dry. Whatever milk is left in the udder is not only lost to the milker but acts as a check upon further secretion, so that the habitual practice of not milking cows clean or dry results in a gradual shrinking of the milk flow and in an early drying up of the cow. Furthermore, the loss of the strippings means the loss of the very best milk. The first milk drawn from a cow usually contains less than one per cent fat, while the strippings may contain as much as 14 per cent.

To obtain the best results from a dairy -regularity must be made a watchword. Cows must be milked regularly at a fixed time morning and night. Milking an hour sooner or later than the fixed time interferes much more seriously with the milk yield than is commonly supposed. Irregularity in feeding also affects the If, for example, that milk flow. have been accustomed to receive their grain just before milking should receive it at times after milking, a reduction in the yield would surely be noticed. This is just what might be expected. Withholding the grain will make the cows restless and discontented which will sufficiently jar their nervous system to cause a drop in the milk flow.

Another matter to see to is to have the periods between milkings as nearly equal as possible. This is especially important with heavy milkers. If cows are being should preferably be milked at six o'clock at night. The more uniform the periods between milkings the more uniform the not had a bit of strong butter since. secretion of milk and consequently the

greater the production. The time between milkings also influences the richness of the milk. If the two milking periods are unequal, it will be found, as rule, that the milk from the shorter peri-

good milker is an important asset in a dairy. The following data secured by Mr. H. B. Gurler from his own herd fully illustrate the importance of a good. milker: As a result of two winters' tests, produced by cows depends in no small Mr. Gurler found that the cows milked by degree upon the manner in which the the poorest milker had fallen off 9.5 lbs. head in three months, while the per shrinkage of the cows milked by the best milker during the same time was only 1.88 lbs. This fully explains why some milkers are cheap at \$40 per month while others are really expensive at less than half this amount.

JOHN MICHELS. Wisconsin.

MAKING SILOS SMALLER.

I have an opportunity to purchase a silo at a reasonable price from one of my neighbors who has quit the cattle business. This silo is torn down and piled up in good shape, but the trouble is that it is larger than I want, being 18 ft. in diameter and 30 ft. high. Now one about 12 ft. in diameter and 25 ft. high is what I would like. Could this silo be constructed to these dimensions? I can have the hoops cut smaller easy enough but would the staves match all right? That is what I would like to know. Also, which do you think the better, a solid concrete or a block silo?

Lapeer Co. Subscriber.

I think it will be entirely practical to

I think it will be entirely practical to make this silo smaller. Simply leave out staves enough to give the silo the required diameter, cut your hoops off the proper length and you will have just as good a silo as the big one ever was, but I beg of you not to make your silo of less You say it height than it was before. ting the cows into their stalls! The lan- was 30 feet high, and you propose to guage and boisterousness that usually ac- make it 25 feet. This will be a great companies all this leaves no doubt that mistake, and you will regret it aftercows to feed, it is entirely practical to A change of milkers has an unfavorable make the diameter only 12 feet, but I influence upon the yield of milk. A cow certainly would not shorten the staves. that has become thoroughly accustomed It will cost you nothing more to have the to a certain milker will feel restless and silo 30 feet high than 25. In fact, it will uneasy with a new milker, which is no cost you the expense of sawing off the where more plainly indicated than in the staves, and you will need that extra five milk record sheet. A change of milkers, feet. Consequently I would recommend to furthermore, almost always means a take the extra staves and lengthen out the 30-foot staves, and building your silo therefore, a change in the stimulation of 36 or 40 feet high rather than making it

If both are properly constructed, I do secretion, it is evident that a change in not think there is practically any differthe method of stimulation will affect the ence between a concrete silo and a ceyield of milk and butter-fat. The wise ment silo. One is as good as the other. dairyman will, therefore, avoid changing Both must be plastered on the inside, both have to be re-enforced to give the It is undoubtedly due to the greater proper strength, and when complete both

ENSILOING BEET TOPS.

I have a farm of 120 acres of which a part is muck from one to two feet deep, with a good heavy sub-soil of clay. I raise a large amount of sugar beets. Can I place the sugar beet tops in a silo and vill the stock do well on them?

Tuscola Co.

W. E. T.

Sugar beet tops can be ensilved successfully and make an ensilage that is very palatable and nutricious. Cattle The tops contain so much moisture that I think it policy to mix straw quite liberally in with them when they put in the silo. The straw will absorb all this excessive moisture, and its palatability will be thereby improved, so that the cows will consume much more of it. When filling the silo with beet tops, they should be evenly distributed over the entire surface of the silo, so that they will settle evenly. If they are just thrown in loosely, they will not pack as well and will settle unevenly. There is considerable loss on top of the beet top ensilage, on account of the coarseness of the material, which allows considerable space for air. Much of this loss could be avoided by placing over the top some finer material which would exclude the air and assist in helping the beet tops to settle.

WILD PASTURE TAINTS BUTTER.

In answer to C. B., of Kent county, regarding butter getting strong, would like to say, if your cows are running on wild pasture it is safe to say it is something they eat, weeds, leaves or something. We had the same thing happen to our butter, churned every three days and had milk in cool place but butter was strong. I milked at six o'clock in the morning, they took cow off pasture and have kept her up ever since, feeding on fodder, and will say butter is sweet and good now, have

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HEIFER TO MILK.

Will Mr. Lillie please tell me whether we should use cotton or linseed meal with carrots, clover hay and cornstalks with some corn in, or can we get a balanced ration with corn and cob meal, carrots and oats, these being cheap and at hand? How do you break Jersey heifers of kicking, without pounding them?

Genesee Co.

A. R. G.

It would not be possible to balance a corn in them, and with carrots as a suc-No doubt your cows would do well on a is to get the right proportion of food nutrients so that you will get enough of each for the demands of the animal and still have none wasted. Out of the ration proposed, in order to get enough protein to produce the casein and nitrogenous part of the milk the cows have to eat more of the ration, than would be possible. That is to say, if they consumed understand that you are her friend, she enough of it to get sufficient protein they would consume more carbonates have little or no trouble about her kickthan any need of, and this would be waste. Now the theory of a balanced ra- heifer under any circumstances. Coax tion is, to have the protein and the car- her. You go to pounding her, she will bonates in the right proportion so that resent it and kick you every time, at when they are consumed by the animal least she ought to, and if she has got they will be economically digested and assimilated. To do this, this ration would her and have got her confidence, there not suffice. An addition of cottonseed meal, or oil meal or gluten feed would be the sake of argument, there is a differvery beneficial in balancing the ration, ence in helfers and it may become nec and this doesn't mean that you be to more expense. It simply means that if you would feed less of the corn cob meal and less of the oats, and a little more of one of these other foods, that you would buckle a strap around her ankle and hitch get the same results as you would if you fed a larger amount of the corn cob meal these will prevent her from kicking you and ground oats. I would advise mixing 200 lbs. of corn and cob meal, 200 lbs. of ground oats, and 100 lbs. of either cot- for any of these devices. If you will tonseed meal or linseed meal, or 150 lbs. of gluten feed. Now, by doing this you feed enough less of the corn meal and oats, to more than pay for the cottonseed meal or oil meal, and thus cheap- with your left hand and grasp the gamen your ration rather than making it ble cord of her left hind leg. With any more expensive. Now if you don't need ordinary heifer, this will prevent her the oats and corn for other stock on the kicking. farm, then you can sell a portion of them and buy the other feeds. The probability is, however, that you will need this corn and oats for other stock, and if you do then it would be a matter of business economy to go out and buy the other feed to mix with your home-grown food.

Breaking a Heifer to Milk.

"How do you break Jersey heifers from kicking without pounding them?" I think that the same answer would apply to any other breed of cattle. I really do not is think that Jerseys are any more apt to kick than other breeds of dairy cattle. In fact, my experiences is that Jerseys are quite gentle and docile and if you use them right, you have no reason for complaint along this line. You can not break a Jersey heifer, or a Holstein heifer, or a Guernsey heifer from kicking by pounding them. That is not the way to do it. One must remember that the teats and udder of a heifer are tender, that if their udders are well developed when they drop their calves, they are inflamed and fuli and are apt to be caked; they are sore and ought to be handled carefully. The best way to break a heifer from kicking is to never allow her to kick, and this can be done. Several weeks, or even months, before the heifer comes fresh, occasionally rub her udder and teats with your hands, she will get used to this and channed. mother, then it ought to have a dose of to give your animals an opportunity to castor oil the first thing, but if you let prove their worth.

TO BALANCE A RATION .- BREAKING the calf suck the heifer do not neglect the teats, especially if she runs out in a After the calf has sucked cold wind. the heifer the teats become wet with saliva and milk. If the heifer is turned out then the teats are liable to chap and when you go to milk her by hand, it hurts and she resents it. After a calf is through sucking, strip her a little and then wipe off her udder and oil it again, don't let it chap. Again, some people are very careless in the way they take ration where the roughage is composed hold of a cow's teat in milking. They of clover hay and cornstalks with some have their sharp finger nails come in direct contact with the teats, and when culent food for roughage and then corn they equeeze their hands, it presses the and cob meal and ground oats for grain. nails right into the teats. Can you blame No doubt your cows would do well on a a heifer, or even a cow for kicking under ration of this sort if you fed them liber- such conditions? Take hold of the teats ally, but that is not the point. The point so that the fleshy part of the finger comes in contact with the teats and not

> Now, if you will bring a heifer up right, manipulate the udder properly before she comes in, be careful about not allowing her udder to chap, and get on the right side of the heifer. If you give her to will not be afraid of you and you will Do not pound or whip or punish a any spirit she will. If you are kind to will be no trouble. I will admit, that for essary sometimes to tie the heifer at first until she becomes accustomed to being milked. Besides, you can tie both legs together with a broad strap, you can it back to a ring in the floor. Either of or doing any harm. For an ordinary heifer I, however, would not give a cent press your head firmly against her flank, you can usually prevent her from kicking at all. Once in a while it may be neces sary to reach in front of her right leg

WHAT GRAIN TO BUY.

I would like your advice on what kind of feed to buy. With cull beans quoted at 75c cwt.; second grade wheat, 75c cwt.; second grade barley, 75c cwt.; seccwt.; second grade barley, 75c cwt.; second grade rye, 60c cwt.; cottonseed meal, \$2 cwt.; linseed meal, \$2.25 cwt. We have all the good ensilage, good clover hay, good cornstalks of our own but have to buy grain for the cows; now which of these would you advise me to buy, and is rye likely to make cows lose their calves?

Arenac Co. R. C. R. If you can buy fairly good wheat for 75 cents per hundred, I am inclined to think that ground wheat, cottonseed and linseed meal would be the best food for you to buy to feed in connection with your clover hay, cornstalks and ensilage for roughage. Seemingly the price of cottonseed meal and linseed meal are high, but when we take into consideration the digestible protein which they contain, and the lack of protein in the roughage grown on our farm, then we can understand that, comparatively, these foods are not high. A ton of cottonseed meal, for instance, would be worth as much as four tons of ground rye to help balance up the ration. Cottonseed meal and linseed meal are very concentrated protein foods, and if it was not for their being so rich, I would not advise feeding them so liberlike it and the friction of the hand upon ally. A year ago last winter, after we the udder and teats will, in a way, tough- had fed out our supply of home-grown en it and get the heifer used to having oats and peas, we fed our cows, on an her udder manipulated. As she nears average, two pounds of cottonseed meal the period of parturition manipulate the and two pounds of linseed meal, and enudder still more. Rub it thoroughly, then silage. That is, we only fed four pounds At this time of the year especially, if the results. Most people would not care to teats get damp and are then exposed to feed more than two pounds of cottonseed a dry cold wind, they chap and get sore. meal per day to a cow, and I would not To prevent this, before the heifer comes think it advisable, and if you feed four in, oil her teats and udder with raw lin- pounds of grain, that is a-liberal enough seed oil. This will keep them from ration, them I would simply feed two chapping and toughen them also. When pounds of cottonseed meal in the morning the heifer drops her calf, of course the and two pounds of linseed meal at night. calf ought to suck once or twice, perhaps If you purchase the second grade wheat, The calf ought to get the get it ground and mix 200 pounds of first milk of its mother, which contains ground wheat, 100 pounds of cottonseed the cholesterin, which is so beneficial as meal and 100 pounds of linseed meal toa laxative in cleaning out the elementary gether, and then feed as many pounds canal of a young calf. If you don't allow per day of grain to each cow as she proa calf to get the cholesterin from its duces butter-fat in a week, you are sure

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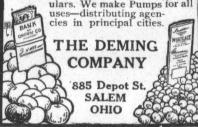
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HORTICULTURAL TOPICS DISCUSSED.

Requirements of Different Fruit Package Laws.

To encourage greater uniformity in the packages used for the marketing of fruit legislatures of different states have passed measures stipulating dimensions by the advantages offered. Our fruitof packages or contents of same, or both Such measures encourage the use of standard packages within the state. They also foster the employment of these standard packages by parties living outside but selling fruit within the state enacting learn just the effect of these measures upon the fruit industry; they are certainly a much stronger factor than the layman is likely to give them credit for. However, more efficient policing would unquestionably increase the benefits. In order that the readers of these columns may have the opportunity of learning the requirements for fruit packages laid down by the different states we append a brief statement of the important ones:

Michigan has a statute regulating the size of peach baskets which requires that they hold 716 4-5 cu. in., or one-third is not suitable to prune. bushels. The requirements for apple barrels is that the staves be 27 in. long and the heads be 161/2 in. in diameter.

In New York state statutes require of fruit contain 67 cu. in., pint measures shall contain 331/2 cu. in., and half-pint measures shall contain 16% cu. in. Barrels in that state must have a capacity equal to 100 gts. dry measure have a head 171/2 in. in diameter, staves 281/2 in. long, with a bulge at the center of the barrel measuring 64 in. outside measurement.

Baskets shall be of the capacity of one quart, one pint, or one-half pint standard dry measure, according to the statute of Massachusetts.

Peach baskets are required to hold 16 quarts or a Winchester 1/2 bu. and the baskets shall measure 121/2 in, high, 131/2 in. across the top, and the inside measure shall contain 1075.1 cu. in, in New Jersey.

Missouri enacted a statute which stipulates that apple barrels be 281/2 in. high, have chimes % in. from the ends, have heads 171/4 in. in diameter and the center of the barrel with a diameter of 201/2 in., inside measurement.

Apple barrels in Tennessee shall contain 21/2 bu. and in Wisconsin 100 qts. dry measure.

The Canadian fruit package law requires that fruit of that country packed for export shall be packed in barrels. These barrels shall be 261/4 in. between heads, inside measure, the heads 17 in. in diameter and the middle diameter shall contain, when level full, 15 qts. or more, 11 qts. and be 5% in. deep, inside measurement, 6% qts. and be 4% deep, and 2 2-5 qts.

The Influence of a Name.

A few months ago the word passed that a certain make of automobiles was not properly designed and right away the sales of that machine began to drag and finally it became necessary to practically close up the shops until the surplus could be disposed of. In early days northern Michigan, in some way, got an outside reputation that her lands were of an inferior quality and so men refused to set-Lands to the west were chosen instead, and the territory of northern Michigan suffered. The tide of immigration became settled in its course and was directed to the west; consequently farm lands there, that did not compare favorably with farm lands in Michigan, were selected in preference to what our state had to offer.

To stem this tide required more than the showing of equal advantages. Michign was put to a disadvantage, she could not divert men from their western course just as good, but it was necessary to prove that she had more. The west was a mystery, it could not be defined, and that lack of definiteness about it seemed to be a lure for homeseekers. But later when men learned it better and specific informtion about it could be had, then it it was, that Michigan's possibilities took root in the shifting element of our civilizaright knowledge of her soil, her climatic tectors on.

limitations, and her wide range of agricultural possibilities which, together with her low-priced farm values, her closeness to the great markets of the country have But it has cost 'turned the trick." Michigan a lot of money and a considerable popularity to let the opinion early get out that a large part of her territory was ington lady found that letting coffee unavailable as farming land. The natural course of affairs from now on may repay her what is due. Those who aid her in coming into her own will also be blessed growers are giving this aid and reaping the blessings.

FARM AND FRUIT NOTES.

The weather has been quite catchy for the statute. It would be impossible to several weeks so it is hard to plan and execute farm work just as would be de-We have tried to make pruning our main business the past week, but as the orchard is four miles from home and there has been so much stormy weather we have not progressed very rapidly, but have done a number of other jobs here at home. On two different days we hardly got at work at the orchard before rain came on and we had to leave. There are some trees in the orchard to be removed and we take the saw and axes along so we can work at this when the weather

We have cemented the furnace cellar during the week, and filled up a number of hollow apple tree trunks and branches with cement. This will at least keep that quart measures for the marketing some of the water out and discourage

Another recent job is the pulling of the

stumps of the peach trees that were cut down on account of yellows during the summer. There were about 150 of these. By taking a chain and team and cutting some of the roots on one side, the stump could be pulled with most of the roots. The longer roots will be chopped off, the trunks sawed with the buzz saw, and used as furnace wood-rather expensive wood, however. I do not hear much about the yellows in the fruit belt, but here where there are only a few trees on each farm, and no inspection, the yellows are taking nearly everything. We have tried hard to keep it out of our orchard by cutting the trees as soon as affected, but with little success, as it has taken nearly the entire orchard in three years, and just as it is reaching a good bearing age, I have also noticed a few six years. touches of it in our two-year-old orchard, and I presume this will not last as long as the other one. I agree with the remarks in a recent-Farmer, that inspectors should have better pay and be better qualified. It is impossible to find competent inspectors here who will do the work for two dollars per day and furnish their own conveyance, and get the ill will of some of their neighbors for their pains. Not one in ten of the farmers whose peach trees have the yellows know what is the trouble with them, and they are left to sprout up as long as they will live, and scatter the disease. Possibly the present law works out all right in fruit districts, but it is something of a farce in other Many of the inspectors who are places. appointed are not qualified for the work, and instead of attempting to throw more light on the question they make arbitrary, and in some cases, unreasonable demands, which result in much ill feeling, and often in the dropping of the insepction. We are a little anxious about this for we have a new orchard of 900 peach trees set last spring. We will do the best we can with them but we do not expect many of them to be there five years hence, but we hope that by that time they will have paid for themselves. should like to have someone who has had considerable experience with the yellows give his opinion as to whether the virulence of the disease does not decrease the longer it is in a locality, in other words, is it not most destructive soon after entering new territory?

Another job that we have completed at odd spells when the weather able is the putting on of 1,000 tree proby showing them that she had something tectors. These were wood veneer, and were moistened, bent around the trees and tied with twine. We used a bicycle pant guard to hold the protector about the tree while tying, and tied with two strings, one near the top and one near the bottom, unless there was a mulch to hold the base. A slit was made in the edge of the protector to prevent the string from slipping down. We put them only a coat, robe or rug. Moth proof, no smell. Freight paid on 3 hides. You furnish hide, we do all the rest and make coat for \$10.00 up. Robes \$5.50 up. Write for price list. S. B. HARTMAN.

THEY GROW

Good Humor and Cheerfulness from Right Food and Drink.

Anything that interferes with good health is apt to keep cheerfulness and good humor in the background. A Washalone made things bright for her. She writes:

"Four years ago I was practically given up by my doctor and was not expected to live long. My nervous system was in a bad condition.

"But I was young and did not want to die so I began to look about for the cause of my chronic trouble. I used to have nervous spells which would exhaust me and after each spell it would take me days before I could sit up in a chair.

"I became convinced my trouble was caused by coffee. I decided to stop it and bought some Postum.

"The first cup, which I made according to directions, had a soothing effect on my nerves and I liked the taste. For a time I nearly lived on Postum and ate little food besides. I am today a healthy woman.

"My family and relatives wonder if I am the same person I was four years ago, when I could do no work on account of nervousness. Now I am doing my own housework, take care of two babies-one twenty, the other two months old. I am so busy that I hardly get time to write a letter, yet I do it all with the cheerfulness and good humor that comes from enjoying good health.

"I tell my friends it is to Postum I owe my life today."

Read "The Road to Wellville," in pkgs. "There's a Reason."

Ever read the above letter? A new one appears from time to time. They are genuine, true, and full of human interest.



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THE MICHIGAN FARMER.

FALL PRUNING-II.

or winter pruning in a general way, mak- short a time, you can talk with him, if that could not be reached from the tree. ing several subdivisions and advancing he can't, let him trot along, and I dare several principles to keep in mind during say he will keep trotting. the work. I now wish to give as nearly many years.

In the first place, we wish to have the proper tools for the purpose. After tryblade being curved so as to make a push cut on the convex side and a draw cut variety of ways and places than a straight saw or one with but one set of teeth can is used more often in cutting a large should always be kept in view. branch near by, and the concave side, or smaller branches. Many of these branches handled pruning shears, but the trouble is to work the shears and hang on at the the saw. It is not practical to use a ladder in pruning a large tree, as to much time is required to move it. The operator must get into the tree and work from the branches. Another advantage is a saw with a push and a draw cut is, that rests one to use both motions rather near the base we sometimes carry a saw, but ordinarily it is more bother to the average neglected tree is altogether by using it.

mature tree is the long-handled pruning and study as one should attempt to see shears. By these I mean the shears like hand shears, but with handles from two to three feet long. We usually set a step branch, also whether the thinning could ladder against the trunk of the tree and use these shears in cutting out the water sprouts which are generally quite abundant on the larger branches near their base. Many of these may be dead, but too expensive to properly spray and pick there is usually some live wood at their base where they are cut. As a rule we do not take the shears into the tree on a special effort is made and a high deraccount of the difficulty in working them rick used the spraying -ill not be well when standing on a branch, and the time consumed in changing from the shears to the saw and back again. The saw is light and can be held in one hand while also be used for picking out the tops, or holding on with the other, and it will cut one must climb into them, or a longer almost as quickly as the shears. The tree, all of which is inconvenient and exconcave side also acts as a convenient pensive. If these high tops are removed hook to start the branch to the ground after it is cut, for it must be remembered the bearing surface of the tree, but at the is consumed in getting the cut branches aid in this we begin at the bottom and duced in these centers, and if some new center, so as to leave all the room posthe center are started downward with the near the outside are left or thrown farther to the outside where they are pulled better. down from the ground with a pole having a spike driven in it obliquely near the upper end.

But to return to the question of tools. the saw alone will do, but the long-handbranch with it. If an agent wishes to more rapidly, sell you some of these novelties at \$3.00

as possible our method of pruning out an using them. Now, as to the best man- are located and thinned out. We do not old neglected tree, such as is found in an ner of pruning a neglected tree. We beorchard that has not been pruned for gin at the center, cutting out the dead need at the one operation, but where a many years.

limbs which may come out from the tree is so very thick it is necessary to trunk or large branches near it, and the dead and surplus water sprouts. Where branches down, and sometimes a tree is ing out nearly all kinds of shears and the center is rather open we like to leave saws I would advise a Paragon pruning a few water sprouts that are headed tosaw, which has a double set of teeth, the ward these open places if it can be done without breaking them in getting down the brush. If they must be taken out done more cheaply then than to scatter it on the concave, or hollow, side. This en- others will be likely to start and some over several years, besides it will be ables one to use the saw in a greater can be saved at the next pruning. This selection and training of water sprouts to form a new head lower down on high be used. The convex side, or push cut, trees, or to fill up open places in the tree

From the center of the tree we work draw cut in reaching out and cutting outward on the lower branches of the they are large and thick, two to three tree then unward toward the top. The are small enough to be cut with the long dead branches are cut and taken out first, then the branches which rub or cross or are not growing in the desired direction. same time, as two hands are required to These are drawn out and dropped as cut are very la do this, while but one is needed to work so that one can better see what needs little more. cutting next, for it is impossible to do a good job of pruning on a tree filled with

brush. There will still be places that are entirely too thick, and these should be thinned by taking out the branches that that work can be done more easily, as it will leave the remaining ones best distributed. In general, this will be the than but one. Where the trees have a branches near the center of a cluster. We large number of quite large dead branches try to leave those that are growing toward the center of an open space, also coarse hand saw for cutting these, as it the lower ones where they are healthy, will cut a little faster than the pruning as we want as low trees as possible, and keep it along than the advantage gained too high. We also aim to cut a number of small branches rather than a large The only other tool which we consider parent limb, where this will answer. All very necessary in pruning a neglected this work requires frequent observation how the limb will look after a certain branch is removed before cutting the not be better done by cutting some other branch.

If the tree is too high, and most of them are, a special problem is presented. It is the fruit from the tops that can not be reached with a 20x24 foot ladder. Unless done and the fruit will be inferior, and pests will spread from the top to the lower branches. A special ladder must either a large or small branch and do it and heavier ladder be used for the entire it will remedy all this. True, it reduces that in these old thick trees more time same time it gives the light a chance to strike further down into the center of to the ground than in cutting them. To the tree, so that more fruit will be prosprouts are left here to renew the centers sible to get the branches down. Those in the bearing surface that is lost by the cutting will gradually be replaced lower saw or hand, cut end foremost, and those down where it can be handled at half the cost and the quality of the fruit will be

So much for the reason, now for the "dehorning" operation. We try to cut only the branches that are vertical or nearly so, unless they are altogether too high. Those whose origin is at a reasonled shears will prove a convenience in the able height and which are horizontally as we bought the plants, White Plume center of the tree, and in trimming out inclined will droop with bearing so that celery and seed we had saved from good the lower branches around the outside, they can be sprayed and picked quite conpumpkins. These being farther from the body of the veniently. Those which stand upright and the purple of tree are not held as firmly and cut better are too high should be severed just above Irish potatoes, principally, a few vines with the shears than with the saw. For a branch that has a horizontal growth among the sweet corn, and were planted the higher branches we have a short step so that this branch or branches will take after potatoes were hand high, in the ladder, and also carry a ladder about 16 the growth which went to the severed row, not between the rows as that would feet long to use on overhanging limbs limb, and will help to heal over the have hindered cultivation. They are fine that we can not reach from the tree. The wound quickly. Stubs should never be for cooking this year. The sweet potapole pruners with lever will answer for left as they will die down and leave rot. toes, late cabbage and celery plants, also some of this pruning around the outside ted places or will send out numerous some sweet corn, were planted in July, where the branches can not be reached water sprouts. It may be better to make just average good plants excepting celery with the others, but I do not believe they a cut of this kind not quite horizontal so which were very small and puny. are of sufficient advantage in pruning old water will not stand on it, and if large it neglected trees to warrant their use. Bet- is best to paint the wound when the sap had to pay for vegetables used and on ter work can be done by getting up to it is not flowing too much, with thick, hand, the garden was worth \$60 or \$75 to either in the tree or from a step ladder, white lead paint. In cutting any branch besides it can be done more easily. We it is best to cut rather close to the parent have also had some of the recent patent limb and somewhat parallel with it, but pole shears on trial, but can not recom- not too much so where there is quite an mend them. The kind which works with enlargement at the base, as in some varia sleeve on the pole has not sufficient eties but long stubs should always be power, and the one which you hook over avoided. Dead limbs nearly always have a branch and pull on the handle requires some green wood grown about their base, winter. a firm branch or it will slip down the and we usually cut near the outer edge branch instead of cutting it, and it is of this, as the wood is softer here and also difficult to cut close to the parent cuts more easily, and the wound will heal

After the tree is pruned from the cen-

per, set him at work at an old tree with ter and the top lowered if necessary, we it, while you take the saw and shears. If pull down any brush still hanging, and In a previous article we discussed fall he can do as good a job as you can in as trim out the outer and lower branches

> After the tree is finished it is viewed from the ground from all directions and So much for the tools and method of if any very thick places still appear they aim to do all the pruning a tree will ever thin it considerably in order to get the thinned nearly enough when the dead and dying branches only are removed. However, I believe in giving the tree a fairly good thinning the first time for it can be found to be too thick in a year or two anyway and will need further thinning, but I may treat of this in another article.

As to the cost, one man will prune from two to six trees such as are found in the average neglected orchard, in a day. make a good day's work. For the average run of trees 50 cents would be a fair charge for the pruning and 15 to 25 cents for burning the brush, but if the trees are very large and thick it may cost a

S. B. HARTMAN. Calhoun Co.

A GARDEN THAT PAID.

It has often been said that the garden was usually the most profitable plot of ground on a farm, size considered, and surely ours has proven the rule. The garden is about a half acre in extent, but a fourth of that is taken up with trees and bees, not scattered through the garden, but located in the center.

From this plot we have had abundance of all sorts of vegetables from early radishes to late sweet corn, for a family of seven, and have four bushels of sweet potatoes, three of Irish, several gallons of tomatoes canned, fifteen gallons of sauerkraut made, besides about 400 head of cabbage to bury; celery to run until Christmas, pumpkins to last all season, and have sold five dollars worth of vege tables.

Just a couple of loads of well-rotted manure were used, and that on the space where gooseberries and rhubarb were set out. The soil is sandy and is, of course strong, but as an offset, it needs drainage very badly.

The soil was plowed deep, and as rair was threatening, no fining was done, just rows run and the seed put in-this for the early beans, corn, potatoes and cabbage plants. The radish, lettuce and pea seed, and the onion seed were put out earlier, on prepared soil.

For the later cabbage, corn, sweet potatoes and celery the ground was well with cultivator before being planted.

Cultivating was done with hoe, rake and garden plow, and it was done often enough to keep weeds down, and this required soil stirring at least twice a week until plants grew too large.

The following varieties were grown: Dwarf Gem peas; Scarlet Tipped and Chartier radish; common white onion sets, Hanson lettuce, Success tomatoes, Country Gentleman sweet corn, Jersey Charlestown and Wakefield for early cabbage. late Flat Dutch and Marblehead for late, Valentine bunch beans, King of the Garden Lima beans, early Ohio potatoes, the yellow sweets, do not know the variety

The pumpkins were planted with the

Considering the price we would have us, about \$1.00 was paid out for seeds and plants, and the cultivating was done by myself and children. The plowing would have cost \$1.00 probably, so after paying for all cash outlay we have \$3.00 or \$4.00 in money and the garden living through the summer, also an amount stored for

Air slaked lime was used for cabbage worms, the children hand-picked potato bugs. The secret, is good seed and frequent, shallow cultivation.

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CURRENT COMMENT.

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upon in a recent editorial in this paper

al manner, which would cause the profits proven a success wherev now reaped by speculators to accrue to the producers. These statistics regarding operations of these societies for collective purchase, production or sale show that they do business in large figures and that they cover almost every phase of agricultural effort, including societies for the sale of cattle as well as other products grown upon the farms of that country. Space will not permit us to go into the details of the business done by the several German Co-operative societies at this time, but it is sufficient to say that they are operated in com-munities, but are federated together in a central organization which holds an annual congress and is a considerable factor in the securing of legislation and the education of the individual society along siderable factor in the various ways in right lines of organization. It will be a which a potent influence is needed to put surprise to many Michigan farmers to learn that the scope of co-operative work in Germany is very broad, covering even the providing of electric light and power to the residents of farming communities and small villages by means of co-operative societies.

Austria has a total of 2,605 agricultural co-operative societies in addition to over 7,000 banks which are operated upon the co-operative plan for the extension of credit to the members of the societies operating them. A large number of cooperative warehouses are operated by these societies and used in the purchase and sale of commodities used and pro- market, makes it not only possible, but auced by the members of the societies. There is also a general federation of the co-operative societies of Austria as well as 34 provincial federations of local so-

In Denmark where agricultural co-operation has reached a high state of perfection the work has had a most remarkable effect on agricultural conditions. Agricultural co-operation was introduced as a means of bettering conditions when Denmark, as a nation, was bankrupt and her people practically in the same condition, with the result that today Denmark is sec, ond in per capita wealth of all the countries of the world. Some details of these organizations are most interesting but space will not permit them to be given in this issue. In 1909 there were in Denmark, 1,157 co-operative dafries, 34 bacon curing societies, 15 societies for the purchase of requirements, a number of societies for the marketing of cattle, and breeding societies numbering 1,260, horse breeding societies numbering 270, swine breeding societies numbering 253, sheep trol societies to the number of 519, the so-called control societies being similar to the cow-testing associations carried on in Michigan in a co-operative way.

Perhaps the most remarkable growth of agricultural co-operation has occurred in it has been in previous years. Then, with Japan in recent years. In 1909 there were 5,149 such societies in Japan, while in 1900 there were but 21. These covered a very wide range of usefulness and will same rate, (the most liberal offer made be mentioned in more detail in a future issue. Other countries of Europe also to \$1 per year to be made January 1, afford examples of the increasing popularity and usefulness of co-operative societies for the economic benefit farmers.

It is a matter of pride and congratulation that the United States comes in for a fair share of credit in co-operative work in this bulletin, the organization of fruit growers in California being given as the best example of the benefit of co-operasubscriptions and clubs will be sent upon tion to be found in our country. While co-operative enterprises are becoming increasingly popular among the farmers of this country this method of doing business has not increased as rapidly here as A bulletin just in the older countries, probably because The Progress of Agriculissued by the of the fact that our farmers have been tural Co-operation.

International more prosperous and have not felt the Institute of Ag- necessity for working together to the riculture, with headquarters at Rome, af- same degree that their old world confords some interesting revelations regard temporaries have done. However, every ing the rapid progress of co-operation as instance in which our farmers have oragriculture in some of the old ganized themselves in a co-operative way Germany leads in the has been one more instance of the success number of agricultural co-operative so- of this method of doing business. Praccieties, having a total on the first of tically all farm buildings are now insured June, 1910, of 23,845 such organizations, in mutual insurance companies which are of which 15,526 were loan and savings operated on the co-operative plan. The organizations, 2,293 for collective pur- co-operative dairies have without any chase, 3,325 co-operative trade organiza- question been the means of maintaining a good price for butter because they af-The economic utility of the credit and forded the producers the opportunity to loan societies of Germany was touched sell it in the best markets of the world. Co-operative cow testing associations are and requires no further comment at this making money for their members while remain at a comparatively high level. The election in England of a new partime, except to call attention to the fact the co-operative breeders' organizations that an easy method of borrowing money which have been formed in Michigan duplated at a low rate of interest would make our ing the past two years will prove of even dicted with sufficient accuracy to hold a present majority will be increased or diminished. It is generally thought that the liberal government will be returned, the latest news from the island appears to have reduced dicted with sufficient accuracy to hold a present majority will be increased or diminished. It is generally thought that the country, and particularly for the hog the majority will be about the same as making money for their members while remain at a comparatively high level.

practical plan, while the latest effort toward co-operation in Michigan is being undertaken by the beet growers of the state as noted in a recent issue. There is every reason to believe that co-operative work might be extended with great effect to the farmers of Michigan and this is a good time to consider the propesition and work out a practical plan of organization along lines of community production throughout the several agricultural centers of production in the state. Active work for a single year by interested readers of the Michigan Farmer would produce results which would give Michigan a sufficient number these organizations to form a strong federation, which would become a very conour agriculture on a par with other big industries. In last week's Michigan

A Lesson in the Farmer, an old swine breeder and close ob-Hog Market.

server of market conditions analyzed the relations between the farmers of the country and the packers who buy their product, and made some deductions that are well worth the careful consideration and study of every farmer who produces hogs. The fact that a very large percentage of the farmers of the country who produce hogs plan on fattening the spring pigs for the fall a great object to the packers to bear the hog market during the early winter months, since they are able to stock up on meats and provisions to be sold later in the season on the advancing market which is sure to follow the season of flush marketing, following the time when the spring pigs commence to be rushed to market by growers who plan on this source for a needed cash income at this season of the year.

The only way to remedy a condition of this kind is to provide for a more even marketing of the product, and this in the case of hogs would require a different system of breeding and growing them, so that there would be no big surplus of hogs to market at any season of the year. The corn belt farmers will, as a rule, continue to feed off the spring pigs for the winter market, since as they are sitvated, this is likely to prove the most profitable method, even if the hogs have to be sold at a lower price at that season. But with an increasing number of hogs being fed in the cattle yards and feed lots during the winter by the cheap method of having them follow the steers fed on shock corn or ear corn, and the increased facilities for feeding hogs in the dairy sections of the country during the winter season, this tendency should be less marked, even in the corn belt, than an increased knowledge and appreciation of the advantage of feeding a fattening ration in connection with clover or alfalfa pasture in the summer, and a ration in which alfalfa or clover forms a considerable factor in the winter, together with the use of better balanced rations in the growing of the pigs, which will make it possible to get profitable gains and yet finish the spring or fall pigs at almost any season of the year desired, the hog growers of the country will be able to plan on marketing their hogs more seasonably. By this we mean, that if the tendency should continue to be toward a weakened market in the fall or early winter, the progressive hog feeder should plan on running his spring pigs a little later and finishing his fall pigs earlier than he has been accustomed to doing, since by this method he will be reasonably sure of having a better market when he sells than by following the ma-

when he sells than by following the majority in the present tendency toward heavy marketing in the fall and early winter.

Notwithstanding the fact that the big corn crop will tend to raise the average market weight of the hogs sold during future months, it will be a great surprise to all market students if hog values do not strengthen as the shipments begin to fall off with the marketing of the bulk of the spring pigs. Undoubtedly there is a shortage of hogs m the country, and while an increased average weight will help to make up for this deficiency, yet there will be no surplus above the demand and provisions may be expected to mand, and provisions may be expected to

products on the market in a more gradu- tions for the marketing of produce have growers of Michigan, who can plan on a tried on a ration for their growing hogs which will make them more independent of seasons than can the hog growers of the corn belt.

HAPPENINGS OF THE WEEK.

National

National.

Secretary Meyer, of the navy department, has issued a report in which he recommends the disbandment of several of the navy stations of the country and using the funds necessary to maintain them for the better equipping of more important stations. Stations which could well be dispensed with, in so far as efficiency in case of attack by an enemy is concerned, are those at New Orleans, Pensacola, San Juan, Port Royale, New London, Sackett's Harbor, Culebra and Cavite.

On Monday of this week Port Huron held an election to determine the commissioners to rule the city under the new commission form of government, which has recently been adopted by the munici-

has recently been adopted by the munici-

commission form of government, which has recently been adopted by the municipality.

Mrs. Mary Baker G. Eddy, who has always insisted upon being called the discoverer and founder of Christian Science, died at her home at Newton, Mass., last Saturday night. According to the announcement of medical examiner George West, of Newton Center, death was due to old age and an attack of pneumonia, from which the aged woman suffered about a week or ten days.

The members of the congressional committee on the Panama canal have returned from Panama after a tour of inspection. They state that the canal is 60 per cent completed. The canal officials are asking for \$47,000,000 from the coming congress for the further prosecution of the work.

the work.
Senator Elkins, of West Virginia, who seriously ill for some days

Senator Elkins, of West Virginia, who has been seriously ill for some days back, was reported improved early this week.

Government officials are looking over the details of bids for the two new battleships of 27,000 tons capacity. When completed the ships will be the largest of the navy. It is estimated that three years will be required for building and the cost will approach \$12,000,000.

The hunting season which closed with

cost will approach \$12,000,000.

The hunting season which closed with the last of November, has, according to private reports gathered, cost 113 lives. Michigan was the heaviest looser, 27 lives being lost within her borders.

It has been found that the new collier of the United States navy is so designed that it cannot unload at the old docks. The craft, which has been christened "Cyclops," is the largest of its kind in the American navy. the American navy.

the American navy.

The majority report of the committee considering the Ballinger-Pinchot controversy, is in session in Washington. The committee as a whole will not be called together until the majority members have

concluded their work.

The interstate commerce commission is giving a hearing to the Pullman company and railroads, together with the attorneygenerals of several states, to determine change in the upper berth rates of Pullman cars. The Pullman company has offered to cut the rates of upper berths 20 per cent but the attorneys of the several states do not feel satisfied with this

eral states do not feel satisfied with this amount.

By advancing wages from 5 to 8 per cent, adopting a 11-hour day, and eliminating work on Sundays and holidays, the express companies have affected a settlement of the difficulties with drivers in New York city. The men are back to work, although there are a few minor details yet to settle.

The new court of commerce which has been authorized by congress, will have upon its bench, Judge Prouty, of Vermont, who has been a member of the interstate commerce commission for the past 20 years. Another member is Franklin K. Lane, of California.

It is estimated that the eight-hour labor rule will increase the cost of the battleship New York by \$1,500,000.

The war department has adopted a high power powder for use in mines. The nature of the new explosive is a secret.

The prison board of control of Michigan will recommend to the coming state legislature that a new state prison be built at Jackson, outside of the present city

islature that a new state prison be built at Jackson, outside of the present city limits. The old prison, they state, has outlived its usefulness, is not secure, and it will soon require a large expense for additions repairs etc.

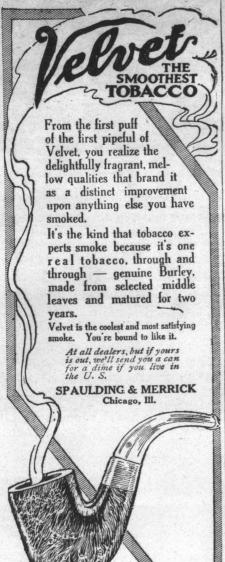
Twell soon require a large expense for additions, repairs, etc.

The complete returns of the last election show that the plurality of Gov.-Elect Osborn was 43,093.

The small pox ban has been raised from Saginaw, Mich., and schools there are in session and all business is going normally.

Twelve midshipmen and an instruction of the complete of the

Foreign. The election in England of a new par-



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that of the last parliament, although there may yet be some unforseen change that will alter the outcome.

Reports are current that Prof. J. R. Allen, of the University of Michigan, has discovered a gum-bearing plant in Mexico that promises to reduce the cost of rubber. The quality of rubber made from the juice of this tree compares with the best Para product, and it can be laid down in New York at 17 cents per lb.

the juice of this tree compares with the best Para product, and it can be laid down in New York at 17 cents per lb.

Little news has reached the states the past week regarding the situation in Mexico. Insurrecto bands have crossed over into the states and forced men from ranches to join the rebellion. Mormons in the Mormon colonies at Celonia, Dublan and Colonia Juarez have called out every male inhabitant from 14 to 70 years of age and are drilling them regularly to act in case property of the colony becomes endangered. Rifles have been shipped from the states to arm these men.

CROP AND MARKET NOTES.

Shiawassee Co., Nov. 30.—The first heavy snow storm of the season is passing over this locality. The snow is already four inches deep on the level. The ground is not frozen underneath. Wheat is going into the winter in splendid condition the soil being well saturated with moisture. Clover huiling is well under way and the yield ranges from one-half bushel to two bushels per acre. Hay is being sold in large quantities and straw is also being sold in baled form. A large number of lamb feeders are purchasing all the loose roughage and grain that farmers have to sell, and paying the top market. The potato market is not encouraging and many farmers say they will not open their pits if the price does not go higher than last season. The bean market is a little better, but farmers are determined not to sell until the \$2 mark is reached. A few farmers have several acres of beets to haul. Very few beets will be grown in this section next season unless the price is raised. Very few bunches of hogs in the country. No cattle on feed. A large number of sheep barns empty. Good milch cows selling high and in strong demand.

Gratiot Co., Nov. 28.—This county has had very good fall weather, with the result that farm work is well out of the way. There is still much corn in shock, as many farmers preferred to fall plow while the ground is open. About an inch of snow fell during the night and is still falling, though the ground is not frozen. Wheat, for the most part has made a good growth. Corn was rather below the average, both in quality and quantity, in this section. Beets have been rushed out of the ground and are about all secured. Many potatoes were caught by the severe freeze in October. Produce is quoted as follows: Beans, \$1.85; wheat, 86@89c; oats, 30c; butter, 22@25c; eggs, 27c.

Ohio.

Lucas Co., Nov. 28.—So far November has been a good month for farmers to

Oats, 30c; butter, 22@25c; eggs, 27c.

Ohio.

Lucas Co., Nov. 28.—So far November has been a good month for farmers to secure the corn crop. We have had but little rain and a little snow—just enough to dampen fodder to make good husking. Nearly all husking done with the modern husking machines, which shred the fodder at the same time. In this way the farmer gets the corn husked, fodder in the barn and corn in the crib all in one job. The corn market is very dull at present; local elevators are paying but 45c per cwt. for ear co—The price of live hogs has rallied somewhat since the recent drop; local buyers are paying \$6.50 per cwt; sheep, 3@4c; lambs. 4½@5c. Calves are scarce and high, 8@9½c. Poultry remains about the same, chickens, old and young, 10@11c; ducks, 12c; geese, 10@11c; turkeys, 16@18c; butter, dairy, 28c; eggs, 30c; potatoes, 40c; squash, ¾c per lb, and plentiful. There are a great many acres of sugar beets raised in this county and for lack of cars a great many of them remain to be shipped, but the most of them are out of the ground. It is a question of only a few days when they will all be cleaned up. The yield and quality have been good, averaging 12½ tons per acre and testing 17 to 19 per cent. Hay is scarce and high, bringing \$16@18 in the Toledo market. Wheat, 90c; oats, 28@30c; corn, 25c per basket. Wheat is looking fine. Ohio.

CATALOGUE NOTICES.

CATALOGUE NOTICES.

The 1910 Game Laws and Guide Directory issued by the Union Metallic Co., of Bridgeport, Conn., is a pocket size pamphlet of 140 pages giving a synopsis of the game laws of every state in the union as well as the Provinces of Canada. It also contains a guide directory giving the name and address of experienced guides in all principal game sections of the United States and Canada, and is a valuable reference book for any sportsman.

"Orchard Dividends" is a title of a bulletin on modern methods of harvesting, grading and packing apples, issued by B. J. Pratt Co., manufacturing chemists of 50 Church street, New York city. This company will be pleased to place the bulletin in the hands of any one who is interested in the better care of fruit.

"Profits Begin with the Seed," is the title of a bulletin prepared by Manson, Campbel & Co., Detroit, Mich., showing the benefits derived from a thorough cleaning and grading of all farm grains and seeds, in which many good arguments are presented why every farmer should own a good fanning mill and seed grader.

Removed to Larger Quarters.

Owing to the increase in their business the H. W. Johns-Manville Co., announces the removal of its office now located at Some Shelden St., Houghton, Mich., into more commodious quarters at 96 Shelden street. Mr. S. D. Harris, who has been associated with the company for a number of years, will remain in charge of the Houghton office at the new address.

Astonishing News

Wagons Direct, Freight Prepaid, At Manufacturer's Price, From



The day of "The Square Deal" in the wagon business has arrived. The largest manufacturers in the business take sides with you—the wagon buyer The big rake-off that you have been paying on every wagon bought to keep up jobbers and dealers and salesmen is a thing of the past.

Keep these profits and needless expense in your pocket. Get one of the most famous, most perfect wagons made—an "Old Hickory" or a "Tennessee"—direct from the world's largest and most modern wagon factory. Get it at manufacturers price, freight prepaid and make a clean cash saving of \$10.00 to \$30.00, according to the size and style wagon you need.

The whole story of this astonishing change in the wagon business is told in our big free book which you must surely read before you invest another dollar in a wagon of any kind.

wagon of any kind.

Remember, we, the Kentucky Wagon Mfg. Co., have a working capital of over \$2,000,000.00. We make and sell more wagons than any other manufacturer in the world. We operate the largest wagon factory in the world. We make wagons of the highest grade, famous among farmers for forty years—nothing better can be built. 900,000 of our wagons have been sold. That's why this change is such a sensation. What are the reasons? There are plenty of mighty interesting reasons, reasons that touch your pocket closely.

Send the coupon now and get all this startling news. Learn how and why you are offered a bed rock, freight prepaid, factory price on the wagons of highest reputation for generations wagon of any kind.

reputation for generations

OLD HICKORY" and "TENNESSEE Take Your Choice On Free Trial

Understand that the money we save you is on account of cutting out jobbers' and dealers' profits, salesmen's expense and all in-between rake-offs. Then we save you more money owing to our unequalled manufacturing facilities, our cash buying of choice materials in great quantities and our enormous output. We make more wagons, eight times over, than the average manufacturer. That means we need mighty little profit on each wagon—you get the benefit. Notice that you make this saving and at the same time get a better wagon. We have not spared a penny of expense to make "Old Hickory" and "Tennessee" wagons the world's standard of quality, durability, life-time service, lightness of draft, attractive appearance. The same standard of materials and workmanship that have given these wagons a world-wide reputation will be in the wagon you buy. Every "Old Hickory" and "Tennessee" is alike in quality—best that can be produced.

Write for the book, get the startling news of this change in the wagon business, get our money-saving prices, freight prepaid, pick out the style of wagon you need and order on our

FOUR WEEKS' TRIAL OFFER and Two-Year Signed Guarantee

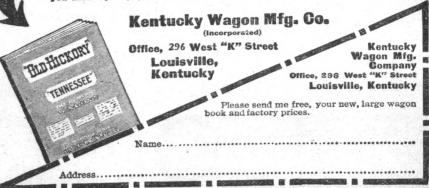
If the wagon is not a bargain, if it doesn't show big value and net you a big saving, if it doesn't prove every claim we make after four weeks of actual working test, ship it back at our expense. As to our responsibility, our rating is the high est given to any firm in business. That isn't a boast—it's for your information. Ask any bank in Louisville. Or ask your own town banker.

Send Coupon or Postal Now. Tear off coupon or take our address down at once to remind you to send for our book, prices and all the interesting facts connected with this proposition. A saving of \$10.00, \$20.00 or \$30.00 and the best wagon built is bound to interest you if the trade secrets and dealer tricks don't.

Write before the first edition of our books is gone.

To Owners of "Old Hickory" and "Tennessee" Wagons

If you now have one of our wagons, and owing to accident or long service, you need repair parts, write for our generous proposition on parts needed.



The Price of the MICHIGAN FARMER advances on January 1. We will extend your time as far ahead as you wish to pay, no matter when your subscription expires at present prices.



CHRISTMAS DINNER.—BY EDNA SKINNER.

time—to the happy reuniting of family ron, two tablespoons chopped candied like a band of drawn work, through which and friends; while the mother or hostess orange or lemon peel, one cup molasses, the lining shows conspicuously. spends much time and loving thought one cup milk, three cups flour, half teapreparing the dinner, taking a natural pride in each achievement. But our de- teaspoon cinnamon, one-eighth teaspoon sary for the double length, and 13 inches light in a bountifully spread table is sometimes marred because of the tired, flushed face of our hostess.

Is there not a way to prepare and serve the meal without a maid so that the hostess will be less wearied and better able to enter into the spirit and jolity of the occasion? To do this we need to arrange the work very systematically and do as much as possible beforehand.

Below is suggested a menu for Christ- steaming. mas dinner, prepared and served without a maid.

Cream of celery soup Roast turkey, chestnut and oyster dressing

Giblet grayy Fried potatoes Creamed onions Squash Cabbage salad Jellied cranberries Fruit pudding

Hard sauce Lemon sauce Fruits Coffee Nuts

clean and truss the turkey, cook the giblets and chop them ready for the gravy. hard. Cook and season the squash, ready to be re-heated when needed; to re-heat, place cranberries, crack nuts, make hard sauce and lemon sauce for pudding. While the pudding, as well as the salad dressing, may be made many days in advance.

The following recipes may be sugges-

Cream of Celery Soup.

* Use outer stalks and tougher portions of celery; clean, cut in inch pieces, cover A HANDY BAG IS A WELCOME GIFT. even if it causes you a great deal of inwith water, cook until tender and rub through a sieve. To each pint of liquid allow one pint of thin white sauce; sea son with salt and pepper, also a slice of combining strained celery and white sauce.

Chestnut and Oyster Stuffing.

Three cups chestnuts, half cup melted butter, one cup bread crumbs, one teaspoon salt, half cup milk or more, oneeighth teaspoon pepper, one pint oysters. Shell and blanch chestnuts and cook until tender in boiling salted water. Mash, using a potato ricer. Add salt, pepper and milk. Mix butter with crumbs. Combine mixtures and add drained oys-If the bread crumbs are stale it may require more milk.

Jellied Cranberries.

Pick over and wash the cranberries. Put into enamelled stew pan with sugar and water, allowing one-half as much sugar as berries, and one-half as much water as sugar. Cover until they begin to boil. Stir occasionally. Cook until all the berries have burst, then without straining pour into an earthen mold and set aside to cool. When thoroughly chilled, this can be removed from mold and will retain its shape.

Cabbage Salad.

Save some of the choicest leaves for a garnish in which to serve the salad. Celery or nuts or green peppers may be cut and blended with the chopped cabbage in any proportion desired. Serve with a cooked salad dressing.

Salad Dressing.

Two eggs, one cup vinegar, half cup of cornstarch, three tablespoons cold water, half teaspoon salt, half teaspoon mustard, bit of cayenne, three-fourths tablespoons sugar, one teaspoon butter. Thicken vinegar with cornstarch which has been blended with cold water. Mix mus. tard, salt, cayenne and sugar with slightly beaten egg-add cream, then add this mixture to thickened vinegar. Cook like soft custard, remove from fire, add butter, strain and cool. This dressing will easily followed and no one need hesitate think of getting. Do not think this is keep in cool place for weeks in tightly to attempt its rashioning.

foolish, for nearly all old people like closed jar. It is much improved if whipped cream is beaten into dressing just before serving.

Fruit Pudding.

One cup chopped suet, one cup chopped violets and green ribbons. This embroid- and evenings, when they cannot get out Wood Rollers

How we all look forward to holiday and seeded raisins, half cup chopped citspoon salt, one teaspoon soda, one-eighth fold of the goods, 24 inches being necesground cloves.

suet, fruit, molasses and milk, stir until neat finish is made. The sides are overthoroughly blended, pour into buttered pudding dish, cover and steam four hours. bottom to the top. The embroidery hoops One-pound baking powder cans make sat- are wrapped with purple ribbon, or whatisfactory pudding molds; fill only two- ever shade prevails in the other work, thirds full and adjust the covers. Or in- and each section of the bag is turned dividual molds may be used, when a down over one hoop and sewed into posi-

before using steam the amount desired is not in use, or over the arm when caruntil thoroughly heated through. It is rying it. very fine if served with both hard sauce and lemon sauce.

Hard Sauce.

Sift the powdered sugar before meas-The day before dinner is to be served, sugar, and lastly the flavoring. Keep in may be made in this manner, making the lean and truss the turkey, cook the gib- cold place until needed, that it may be size to correspond with the books to be

Lemon Sauce.

One cup boiling water, half cup sugar, squash in oven in covered baking dish one tablespoon cornstarch or two tableand stir occasionally. Cook and mold the spoons flour, two tablespoons butter, two tablespoons lemon juice, few gratings of nutmeg.

Mix sugar and cornstarch, add water slowly. Remove from fire and add but- have done for us we surely ought to stop ter, lemon juice and nutmeg. If this is long enough to give them a pleasant time made the day before, re-heat in double at least once a year, especially when the boiler when needed.

The accompanying cut illustrates one of All the children might club together the handiest work bags one can possibly and get father and mother a nice phono-The accompanying cut illustrates one of onion if desired. Serve immediately after desire. It is copious as to space and graph, and a few records, giving them the opening, yet attractive in appearance and money to select other records, for they

ery may be solid, or some cross stitch de sign, either of medallion form or in band effect across the width of the bag. Some prefer an initial or monogram, with or without an encircling wreath. Others

The bottom of the bag is made on a for the width. The lining and outside Mix and sift the dry ingredients, add have their edges turned inward, so that a cast together half the distance from the shorter time should be allowed for the tion, the material being pushed into gathers. These hoops are easily slipped over This pudding will keep for weeks; just a chair, door knob or hook when the bag

For those who desire darker colors, burlap in green or brown, crash or linen in the tan or gray shades, or any of the Quarter of a cup of butter, one cup canvases will be found appropriate fabpowdered sugar, three-fourths teaspoon rics to use as a background, and some of vanilla, quarter teaspoon lemon extract, these will not require a lining. By using strong material like the burlap, and a Cream the butter, gradually add dark shade, very useful school book bags

CHRISTMAS GIFTS FOR THE OLD.

BY GENEVA M. SEWELL.

In this hurrying world do we stop to pay as much honor to ur old people as we should? When we think of all they years that we can do so are steadily diminishing. Do go home for Christmas convenience. Perhaps it will not be necessary next year.

serviceable, and its construction is so may like the pieces that you would never



A Work Bag for a Christmas Gift.

cream colored scrim with lavender satin do not often give them the opportunity lining, almost verging on purple. The to hear it. If it is in their own house it scrim is first embroidered in a design of will shorten and lighten the long days

foolish, for nearly all old people like The material used in this instance is music and we are so thoughtless that we



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This is our offer to you—selectany Cornish piano or organ, from the least expensive to the finest ever built and we, without one bit of obligation on your part, will send the instrument to you direct from our factory with the distinct understanding that if the instrument does not come up to your fullest expectations you are not to keep it, and that the This is our offer

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If the instrumoney than you can get anywhere else—if it is not as good an instrument as you can buy for one-third more one-third more than we ask—if at any time within a year you feel that you have not a good bargain, send it back; we won't find one word of fault with your decision, and you will not be one c

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cent out of pocket for freight or for

The Cornish Bond Protects You



and holds us strictly to this offer. You are to have the privilege of any terms of payment that you may choose. You risk nothing. We assume all responsibility, because we know all about the great beauty of material and workmanship in Cornish planos and rgans and we know all about the pure, sweet, r'ch tone quality of our instruments and we know what a quarter of a million satisfied purchasers think of them.

If you keep the instrument it will co. t you the Rock-Bottom Factory Price, not one cent more, and you will receive with it our Bonded Guarantee which insures the instrument for 25 years against defect in material or workmanship.

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Send For The New Cornish Book Don't think of buying before reading it. It is the handsomest plano and organ catalog ever issued. It explains things you ought to know whether you buy from us or not and it is yours for the asking. Write for it now and please mention which you are interested in—plano or organ.

Cornish Co. WASHINGTON, N. J.

The glue for me is this glue you see. Le PAGE'S, the best by test—the standard of the world because the strongest adhesive

With it you can mend things and make things. A household necessity. Sold in ready-to-use tins holding pint, ½ pint, gill, ½ gill; also in cap sealing bottles and pin sealing tubes. Sold everywhere.







afterwards for birthdays and other times busy housewife. new ones.

has some one with a kodak. Get pictures floss. of all the old friends and neighbors, as well as relatives. Get some from the childhood home, if possible, and put in their own pictures on the wedding day if you can get some that were taken so it and I know you can think of enough box remnants. to fill three hundred and sixty-five pages. at the printer's, and have the month beof month below that on a small piece of hold in place. This may be torn off and package of holly. a new one put on for next year so this will be a perpetual calendar.

Give mother a pretty work bag containing a quantity of pieces of all the woolen dresses the friends and relatives have had for a year or more, she will enjoy "piec- basket is full of bed-linen, towels, etc. ing" them at odd times. Give father a one trip will do the work of several.—C subscription to his favorite paper. He al- R. L. so would enjoy a fountain pen, while she fume.

Make a shopping bag out of heavy such things for they do. Just think of H. G. the things you like that are nice and Use apt to think, "Oh, they do not care for well in clear water.-H. K. fine things," simply because they are old. their dear old faces light up with

Do not forget a generous box of the favorite candy to each one and if it is L. G. utterly impossible for you to go to them telling all your plans, and hopes and going over a lot of your childhood joys again with them. That will be a precious present to both of them.

CHRISTMAS HINTS.

BY MARY E. H. COVILLE.

Get out your boxes of remnants, lace, ribbons, silks, lawns and organdies and you will be surprised to find how easy it is to fashion a dainty gift even if it is at the eleventh hour.

There is such a rage for small bows, jabots, collars, bags, etc., that your work; we have made several bows by taking a piece of mull four inches long and three and one-half inches wide, fold a very narrow hem all round, and on the right side (you can see the edge through) just outline stitch this hem in your chosen color of silk floss-then sew on each same cloth three and one-half inches by three and one-half inches.

Take a ten-cent piece and on edge of place the embroidered piece on top of the parlor ball. lace trimmed piece and you have a beauof a yard purchased will make one-half for

For large silk bows take a piece of Take this piece when hemmed and tie out when the outer edges are cut.

all strips six inches long and have them seven inches wide when sewn together. Now sew quite full all round this a lace and fasten top, press plaits with warm and platters; buttonhole these around the flat-iron and a dainty jabot is the result.

bemstitched and about 15 cent quality. small pearl buttons on one oval and in Cut a handkerchief through the center the one of corresponding size work button for two jabots. With a fine crochet hook holes. If you can secure asbestos or (No. 80 thread), crochet a pretty border straw mats to slip inside these pockets, around the hemstitch and plait them up do so. If not, cut ovals out of pasteboard into jabots. On some put black silk dots and button inside your linen covers. at the bottom above the hem.

Guest towels made from huck toweling its good appearance.

and eyesight is too dim to read. Then are easily done and very acceptable to the Some of these you can send some new records. I can scalloped at each end and initial letter just see how eager they will be to try the above, others hemstitched and Greek key border darned in. These were three-Another gift that both will appreciate quarters of a yard long and all had iniis a calendar with familiar scenes and tial letters in blue, red, orange, pink, pasfaces on each page. Every neighborhood tel shade, greens, etc., in mercerized

Pillow cases prettily embroidered with scallops with a daisy in each and initial; hemstitched sheets, bags and aprons are easily made and always acceptable.

Pieces of jetted net make into collars long ago. Put your mind and heart into all these you will doubtless find in your

No matter how costly your gift is, un-Place the pictures and scenes at the top less it is properly and daintily wrapped of heavy cardboard, which you can get up it will look cheap. Have plenty of at the printer's, and have the month be- white tissue paper and baby ribbon or low and then the day of week and day the narrow holly robbon and after it is prettily tied up slip a piece of holly in the paper which is pasted across the top to knot. A dime will purchase a good-sized

SHORT CUTS TO HOUSEKEEPING.

Keep a handled basket on the stairs to save frequent trips up stairs. When the

Lard will keep fresh much longer if on would be pleased with a bottle of fer- or two potatoes are cooked in it while trying it out .- Mrs. A. D. P.

Take the yolk of an egg and stir as black cloth or leather, putting her mono- much salt into it as it will take up. Bind gram or initial in silver on one side. Do this on warts every night for a week not think that old people do not care for and they will gradually disappear .- Mrs

Use exalic acid for taking out ink dainty and be sure your mother will like stains. Put powder in a little water and them just as much as you do. We are too pour through stain, then rinse articles

When butchering time come try filling But give them some of them and see the dripping pans with lard and set in the oven to render. It is just as rapid and prevents a great deal of the odor which is so trying to many.-Mrs. D.

Powdered starch applied instantly will on Christmas write a long, long letter take out almost any fruit juice stain from wash goods, if allowed to remain on the goods for a few hours until the discolora tion passes into the starch. Starch applied in this way will remove iodin stains also. Mrs. J. J. O'C.

HOUSE-BALLS FOR CHILDREN.

BY ELIZABETH M. STETSON.

During the winter time when children have to be kept in the house a great deal, a nice soft ball can be made for them to play with by cutting a pasteboard in circular form with the center taken out like a letter O. Then either cut very soft, friends will be delighted with your hand bright pieces of woolen cloth or take old pieces of worsted and wrap them in and out, until the whole space in the center is closed. Now sew this center part together as firmly as possible after making sure that it is well filled and ti 't in the

With a pair of sharp-pointed scissors or end a lace edge, cut another piece from a very sharp knife, cut the outside of the cloth or worsted and by slitting the pasteboard it will slip away and leave, with some fluffing up, a round ball. each end of this draw small scallop, work should be trimmed and smoothed off and in same color silk and in each scallop a rounded by gentle rolling in the palm of small dot. Gather each piece in center, the hand and is ready for the game of

For worsted the pasteboard circula tiful bow to wear with shirt waists. If piece should be about four inches, but you have no lawn remnants, a quarter may be a little more or a little less; but cloth, which is heavier and more bulky, there may be a greater diameter, say about six inches. The main thing is white silk one-half yard long, or sew to fill the center opening by winding in together pieces to make that length four and out good and full, to crowd the cenor five inches wide; fold over very nar- tral opening of the O until there is no row hem and chain stitch with black silk opening left at all, and then to secure all round after cutting the ends diagonal- this part together as well as possible, so Black and white are very much used, that the strands of the ball will not fall into what is called an airship bow, just a little showing the children can be taught two loops and the two ends. This is also to make these balls for themselves and pretty in black silk with a favorite color, thereby this will prove a double amuse-We made jabots from lace insertion ment, one in construction and later, of sewing them together. Cut manipulation in the game of tossing

If you have a new polished table and want to protect it make ovals of linen edge, lay three plaits each side center large enough to fit under your tureens edge, of course, in scallops, and embroi-We had some handkerchiefs, simply der a design in eyelet or solid work. Sew These will protect your table and add to

eat and Food Chopper

Turns scraps and left-overs into most savory dishes. The "Enterprise" is the only meat and food chopper that actually cuts the meat, fish, vegetables, fruits, etc., without crushing or mangling. The four-bladed steel knife revolving against a perforated steel plate does the actual cutting. The "Enterprise" has the fewest parts, is easily cutting. The "Enterprise" has the rewest parts, is cleaned, cannot rust, and is practically unbreakable. We make 45 sizes and styles of "Enterprise" Meat and Food Choppers-illustrated catalogue on request.

This machine will pay for itself in what it saves you in one butchering. The easiest, quickest, cheapest way to make the best sausage and lard. Strongly built, carefully and accurately fitted and does its work without a hitch. Our patented corrugated spout prevents air entering the casing, assuring perfect filling and preservation of the sausage. Can be changed preservation of the sausage.

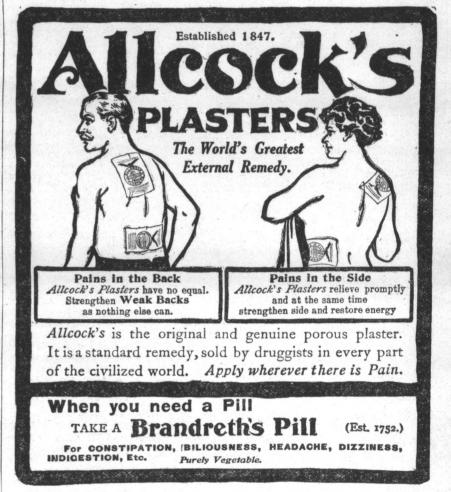
into Lard or Fruit Press in a moment.

Bone, Shell and Corn Mill This winter feed your hens on bone, shell and corn round in an "Enterprise" mill and note the big increase in the egg supply.

The "Enterprise" is a splendid general, all-round millthe best kind for the farmer and poultryman. It grinds dry bones, oyster and other shells, corn, etc. We also make many other household specialties. Write for free catalogue. Sold at Hardware and General Stores Everywhere.

Write for "The Enterprising Housekeeper" a book containing 200 selected recipes and kitchen helps. Mailed to any address on receipt of 4c in stamps.

THE ENTERPRISE MFG. CO., Dept 48, Philadelphia, Pa.



\$200 in Gold Given Away in December TO CLUB RAISERS IN SPECIAL PRIZES.

In amounts from \$50 down. This amount is actually given away because the \$200 is in addition to all cash commissions and rebates. which are in themselves liberal pay. Every person reading this is entitled to enter the competition—no restricted territory to any one. All supplies furnished free. Write now for full details. Address

CIRCULATION DEPT., THE MICHIGAN FARMER, Detroit, Mich

The Country Girl's Chances in Town—No. 1. 1867

BY HILDA RICHMOND.

What the City Store Offers.

Just how the impression ever got out she may blame herself entirely if she that "Anybody can clerk," no merchant fails. has ever had explained to his satisfaction. Judging from the girls who apply for places in stores, it would seem that who can not add, multiply and subtract, blandly say they "know they can clerk," but the proprietor of the store has his doubts after giving the applicants a few simple problems. Any girl who is thinking of applying for a place as a clerk in a store, large or small, should be sure she is quick and accurate at figures, and also that she knows something of the art of handling customers. The latter is acquired to some extent by long experience, but even a very young clerk should have a winning, obliging manner.

In spite of the fact that many city The country is ever supplying the town

work, and the country girl coming to the the idea is a very popular one. Girls city to work should have a good-sized emergency fund to back her up before thinking of starting. The least extra expense, a slight illness, or anything liable to happen to almost any worker, will plunge her in debt and it gives a girl many anxious hours to fall behind ever

so little. One thing the girl should never do and that is plan to stint herself on It will be hard enough to come food. from the abundance of the farm to the skimpiness of the city boarding house without trying to cut off even that insufficient supply.

At first the wages of a clerk are barely sufficient to pay her board and laundry

If a girl can get a little experience in stores will not take girls who can not a store near home before coming to town, live at home, as clerks, there are many all the better, since every bit of experiopoprtunities for country girls as clerks. ence counts. At holiday seasons and ence counts. At holiday seasons and of special sales the country girl should apply and then strain every muscle and every faculty of her mind to do more than she is paid for doing. At certain seasons merchants take on almost any sort of clerk, but they ruthlessly weed out the incompetent ones as soon as the busy time is over. Like stenography, clerking is rather overcrowded owing to the popular belief that it is "nice, easy work," but there are always opportunities for people with ability and tact and pa-The life of a clerk, even a successful one, is no snap, to use a common expression, but many workers find in it pleasure and profit. Machinery is driving many workers out of other trades and occupations, but it is hardly likely a machine will ever be invented to take down goods and patiently answer foolish questions as well as sensible inquiries. Until such a thing is put upon the market, there will have to be clerks, and the number of them is increasing every year.

From the farmhouse to New York buyer for a large millinery establishment is the long step made by Miss Anna Murphy, of Detroit. At least it seems like a long step when we note the distance between the two places, but in reality it was a series of small, painful steps,

"It was all hard work," declares Miss Murphy herself. "You don't get any where in this world without work and I have done my share of it. I learned my trade first in a country town, but after I learned it I decided to branch out into stenography instead. I worked hard to master this new subject, always with the glittering promise of my teacher that I could come to Detroit and step right into a position at \$15 or \$18 a week. After completing the course I came here to pick up one of those positions, but found instead that on account of a panic, the best stenographers were glad to get a position at from \$5 to \$8, and beginners like myself could not get work at any

"But I was determined to stay in the and the desire to "just slip along" is sure city so I turned my mind to millinery to succeed in clerking. It is all foolish- again. I hunted up the milliner under whom I learned my trade and asked her were chances to rise in any undertaking. to let me come into her shop and brush up my ideas. She took me on at a salary and I stayed with her for a couple of years. Then another firm sent for me as sized city at the same time. Though the a saleslady and finally made me their town only boasted 20,000 inhabitants the manager and buyer. *Let me tell you store was a large one, and one of the though, that they did not do it because girls rose steadily and surely to the posi- of any wires that were pulled for me. It tion of head of the cloak department and was hard work and plenty of it that buyer of all that class of goods for the brought me to the top. I mastered my firm. To be sure, other clerks talked of subject thoroughly, and I was never "pull" and favoritism, but the girl with afraid of doing a little too much work. If the ability kept her head and her temper, I saw a thing that needed to be done 1 and also her position of trust. The other did it, even though it didn't add another girl chatted, when she thought her em- dollar to my pay that week. Honest, hard ployers were not about, with other clerks, work is bound to tell, and it has told in for me.

"Am I sorry I left the country? the main she was a good hearted, inno- should say not. The only thing I am Of course, she was dis- sorry for is that I didn't leave 15 years charged the instant hard times came, before I did. There is no reason why a while the other young woman remained bright, hard-working, conscientious girl with the firm until she was married, leav- can not get ahead in the city. If you ing with the genuine regret of the men want to make money the city is the place she had served so faithfully. Somebody to do it. What could you do in the coun-

Don't be too anxious to buy a Persian her ability. And in a peculiar way the gown, as it promises to be very much country girl is fitted to rise if there is overdone. However, if you want it, buy anything to her at all. She has been ac- silkoline instead of silk if it is to be customed to work from childhood, and the made up under marquisettes or chiffons, fresh air and sunshine have given her The effect is exactly as good and the cost such a fund of health to draw from that of your garment is very much decreased.



Miss Anna Murphy.

with fresh blood, ability, energy and ambition in its workers, and there is no doubt that many girls from the farms master the details of clerking completely. It is a deplorable fact that the very best of the life and energy and talent of the country is forever lost to the country in so many communities, but since we are powerless to prevent it, there is no use misrepresenting the facts in the case. The girl who can conquer loneliness, hard price work, indifferent food, lack of pleasure ness to think the day is past when there The chances were never more numerous than at the present moment.

Two girls went into a store in a small traveling men and every way shirked her duties, though in cent person. must have the good places in the store, try to earn \$35 a week?" so why not the faithful girl who rises, not because of a "pull," but solely because of

The Right Way to **Buy Soda Crackers**

-and the simplest way. Ask for them by name-and the goodness will take care of itself. Buy

Uneeda **Biscuit**

Then, no more broken, soggy, stale or exposed soda crackers. Uneeda Biscuit come in individual packages that hold just enough for each soda cracker occasion. Fresh when you buy them. Whole when you open the package. Crisp as you eat them.

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Patent Tension Shears



Good quality of material, 8 inches with patent adjustable spring tension bolt, preventing the blades from spreading and giving a clean cut the full length. We have sent out thousands of these with excellent reports from users, and they have been one of our most popular premiums. Premium No. 159. Free 2 years at \$1.20, 3 years at \$1.50, 5 years at \$2.00.

THE MICHIGAN FARMER, Detroit, Mich.

ABOUT MARKETING EGGS.

It is not enough that we bring our egg yield up to the highest possible figure. This is the first operation. The next, and just as important, is to multiply this yield by the best possible price per dozen.

It will be said that we can not multiply the yield by more than the market price. We can, however, multiply it by our own individual market price—the market price we each can find if we hustle for it.

Everybody cannot do this, it will be said, and this is true; but everyone will The great bulk of the eggs will be sold the easiest way-to the regular trade-and for the least money-the marwe need not be tied to it.

up the price for the year by regulating strawy manure and made comfortable. the output but sometimes it does'nt keep the eggs.

than on the "strictly fresh."

whole question hinges on that expresseach pension, "strictly fresh." "Strictly fresh" The mo

No Question About the Demand.

supposed to be sold, but they are.

sumer together. There are many ways also, dry sand or gravel, old lime mortar, to keep the bees from flying and getting friends in the city? Send them a crate shells. A space should be set apart, lit- benefit in this method. When the weathsoon get the habit, and the profit will be other grains and seeds should be thrown not returning. Not only is this reasonably mutual. You and I can afford to sell for them to dig for. Whole corn, the plausible in theory, but practice has conget, and still have them cheaper than and given them for their supper. It is invariably noticed that those colonies they can buy them for from the corner the best grain for this meal, and were I which take the freest flight on warm direct they will soon tell their neighbors, grains, whole grains, boiled soft and fed All things considered, a heavy snow is to and our customers will multiply until we as green corn, or made into meal cakes, be taken as more beneficial than injurious have a trade that will take all we can which are splendid when cold and brok- to the interests of the apiarist, for if it is

others with regard to access to the pros- be fed by all means if at hand.

ic of prosperity, since it shelters the land pective city customer. However, there It pays to fuss and fool with hens, as and promises us a healthy growth of are few who are so placed that they can well as hogs or cattle, if one has or ex- grass, clover and other plants. not reap the reward of direct sale to pects to have a profit page in his ledger. New Jersey.

usual methods in advertising.

somehow. It is a good time now to lay. It is a matter more of small details, "work this up," and by the time the carefully adhered to and followed out, heavy laying season is here you may be than the launching out into untried reaping a handsome profit through a little methods. extra foresight and diligence. Remember that 10 cents extra on a dozen of eggs means about 50 per cent increase in profits in your poultry business.

WM. J. COOPER. Isabella Co.

PRODUCING EGGS ECONOMICALLY.

Now that the short winter days and ket price that comes to you ready made. long nights are with us, those of us for-And a very good price it is despite its tunate in having a nice flock of hens can Yet it is but one market, it pays find ample time to give them the attenbut a fair profit, and in this free country tion necessary to make them profit pro-we need not be tied to it.

ducers. The first requisite is a coop or The regular egg deal as a whole is house that is proof against draughts and pretty well handled, but, as in most big one wherein water in dishes does not deals, there are a lot of ragged placed on readily freeze by day or night. A poultry the edges and some holes. The storing house, even if sided with inch lumber, of eggs under the present system evens may be banked with earth or coarse

One great fault with many is crowding too many fowls into one compartment, This condition is the opportunity of the expecting thereby to secure a large numhustler for prices. Farmers and poultry- ber of eggs. Twenty to thirty fowls tomen generally take it for granted that gether, and well tended, will produce cold storage eggs are just like other eggs, more eggs than fifty or more crowded or nearly so. This is a mighty long way into the same space, and they will do it from the truth. Ask the consumer, on less feed. If one has room it is best what's in an egg? The market quotations to partition off compartments with ordion cold storage eggs are not much lower nary chicken netting, providing light slat doors so as to readily enter any part This would seem to confirm the excel- without having to go out of doors in the lence of the storage product. But the cold, then place the proper number in

The more economically a product is very often means a condition very differ- produced on the farm, without sacrificing ent from what it should. Some remark- quality or yield, the more profit there is able cases of rapid decomposition have in it for the producer; therefore I would been known to occur in "strictly fresh" say to those who expend tidy sums every eggs, instances in which the eggs have season for the various commercial eggstrictly fresh eggs furnished by the regu- the farm affords or will afford during the lar trade are usually the better grade of winter months. All standard poultry the cold storage stock on hand at the feeds, etc., are manufactured commoditime. There may be exceptions, but this ties, grown and produced originally right is the rule, so do not think that the dif- here at home on our farms, even to bone ference of two or three cents usually meal, beef scraps, etc., which are all given in the market quotations is the only originally the farmer's product. Make one.

it a rule to save, in a box in some dry with a great many consumers in the crushed to atoms with an ax or maul by may have perished. larger cities, and they are unanimous in placing them on a flat rock or on the saying that it is next to impossible to frozen ground, and no better egg probuy good eggs. When eggs are selling ducer can be made, as they contain lime, at from 20 to 22 cents per dozen to the ash and the elements that go to make rush from their hives when the weather egg wagons and country stores, and this the albumen, the yolk and tissues of the is too cold and perish in the snow. The largely "in trade" which brings the ac- egg. When butchering, save all odds entrances should also be kept free from tual price down to less than 20 cents, and ends of meat not suitable for house dead bees that drop from the cluster from they are retailing in the cities, sometimes use, wash, dry and, if necessary for their time to time. These are old bees that not over twenty miles distant, at from preservation, smoke them in some out of die off naturally, but they stop the ven-26 to 30 cents per dozen. Even at these the way place and they will keep sweet tilation if not removed. Take a piece of prices there was an average loss to the and may be fed at the rate of one ounce stout wire, bend the end like a poker and consumer, because of bad eggs, of from per hen. Three or four feeds weekly of rake them out occasionally. 10 to 50 per cent. You can figure for this is sufficient. They may be freed of yourselves what this brings the actual bones, run through the meat chopper and and the south side of the hive is in danger tionable eggs, and such eggs are not feed. Salt in small quantities in mash habit of banking up the snow, when there that would be willing, yes, eager, to pay scraps, parings, cabbage leaves, etc., are gets mild enough for a flight the bees find the storage article.

and meat for eggs. An abundance of hive.

It now becomes a question of how to water, easy of access and not easily polget the egg producer and the egg conluted, should be before them at all times; their hives on a warm day in snow time Have you a friend or or ashes, as these have lime for the lost on the trip. I have never found any of eggs, a small one, say two or three tered with leaves, chaff or straw, for er is warm enough for the bees to fly dozen of real fresh eggs. Let them see them to scratch in and into this litter they will fret and worry if confined. Betwhat a real fresh egg is like. They will cracked corn, wheat, buckwheat and ter let them fly and run the risk of their them eggs at prices above what we now shelled grains, should be heated quite hot firmed my view of the matter, for I have They get healthy, wholesome to dispense with any I would let them all days, and consequently seem to lose the food in the bargain. When one or two go before parting with corn. It may be greatest number of bees on the snow, families of egg users take our product fed in many ways, as meal, cracked prove to be the best colonies in the spring.

consumers in the nearest city. If there I frequently place clover leaves and is no other way, we can sometimes spend stems in an old kettle, pour on water and few dollars very profitably in adver- boil them until soft, then mix them in tising our product. It may seem unusual, mash feeds. The hens fairly fall over but it is often the unusual that succeeds; themselves in trying to get this, for it is in - t, most large business enterprises one of the very best green feeds in either are willing to pay good money for un- summer or winter and one which every farmer who has clover hay can supply. Anyhow, get a city customer or two There is no great secret in making hens

> Gratiot Co. G. A. RANDALL.

> > SNOW IN THE APIARY.

Since the fields have put on their warm white winter clothing, it is well to consider what is best for the colonies that are wintering under this white sheet in the apiary. Is it necessary to remove the snow from the hives, or should it be left for a protection? Snow is a protection to fields and meadows, as all farmers well know. It is a non-conductor of heat and cold, and the ground under it retains its natural warmth. When the snow melts, the wheat and grass show, by their green blades, that this mantle has been beneficial. The hives, likewise, if partly or entirely buried in snow will retain the warmth of the bees, and many of our old farmers purposely pile up the snow over their hives

In a latitude where there are but few days when the sun does not cause some thawing, the snow changes to ice and a subsequent freeze-up, by a sudden change of wind, may completely close up the entrances and air passages. This condition leads to the suffocation of the bees, if protracted beyond a few days, some aperature or crevice is made for admitting pure air. So here is a danger against which we must guard, and a litsnow, enough to close the air-holes with ice, is much more dangerous than a drift in which the hive is entirely buried.

No doubt many persons feel alarmed when they see the hives becoming buried under snow. Just a few precautions will make them safe. Place the hives so that even exploded before they reached the foods, conditioners, tonics, etc., for their make them safe. Place the hives so that home of the consumer. In fact, the poultry, look about and first see what the entrances will face toward the south. Then the snow and sleet will blow against the backs of the hives and not into the entrances. Also incline them a little forward. The warmth of the ' 's will cause the snow to melt, and the water will run out and not into the entrances. Snow itself is porous and air can penetrate it, but if it thaws in the day time, and the place, every bone found in the yards and water cannot run off, it may freeze solid The consumer would be willing to pay surroundings, even to old dry ones. Durabout the entrance at night; then, before for real strictly fresh eggs. I have talked ing snappy weather these may be readily tomorrow's sun does its work, your bees about the entrance at night; then, before

> After hive entrances have been partially clogged for a time, and the bees have not had sufficient air, they will often

So the snow is not to be trusted too far, cost of these eggs to.

Yes, I know there are laws governing bran, middlings, etc., changed about freter is of this flimsy material. Acting upthe sale of ancient and otherwise objectionable eggs, and such eggs are not feed. Salt of the sale of an avariety of the sale of an avariety of the sale of a salt eggs. apposed to be sold, but they are. feeds is necessary and, in real cold is plenty of it, on the north and west. There is a very great demand for fresh, weather, add to the equivalent of one sides of the hive and carefully cleansing sweet, wholesome eggs direct from the peck of same one-fourth ounce of com- the apron-board on the first warm day farm to the consumer. It is a demand mon red or cayenne pepper. All table after the snowfall. Then if the weather 10 cents per dozen more than is paid for excellent feeds in conjunction with grain themselves dry footed in front of their

en or crumbled. Skim-milk, also sour a sign of protracted cold-which is by no Some of us are better situated than milk, are very good for hens and should means always the case—it is also prophet-

F. G. HERMAN.

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White Holland TURKEYS, exclusively. Vigor ous, large-boned, prize-winning stock. T. B. & E. H. McDONAGH, Burt, Michigan

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50 Fine Barred Plymouth Rock Cockerels For Sale. The best ones at \$1.50, good ones for \$1.00. A few Pullets at from \$1.00 to \$1.50 each.

Lake Ridge Poultry Farm, Levering, Michigan.

BARRED PLYMOUTH ROCKS—A choice lot of birds, both cockerels and pullets to select from. Prices reasonable. W. C. Kempster, Coldwater, Mich.

THOROUGHBRED S. C. BROWN LEGHORNS A few nice cockerels left at Meach. LEWIS T OPPENLANDER, R.No. 4, Lansing, Mich., successor to Fred Mott

BUFF ROCK CKLS—Choice quality, farm raised and best of breeding. \$2.50 each; two \$4.50. A. WELLS, Saranac, Michigan.

BARRED PLYMOUTH BOCK-Hurry! Hurry!
Write quick if you want your pick out of a bunch
of Cockerels the large type, narrow barring, bred
right sired by first Cockerel at Grand Rapids Poultry
Show. A. J. GORDEN, Dorr, B. No. 2 Michigan.

Barred Rock Ckls. -Vigorous, farm raised, and each two for \$5. J. A. BARNUM, Union City, Mich.

WE will have a few ckls. to sell from Barred and White Rocks, Buff and White Orpingtons Black Minorcas and White Leghorns. Write fo. prices. H. H. KING, WILLIS, MICHIGANTI.

White Wyandotte COCKERELS from heavy A. FRANKLIN SMITH, Ann Arbor, Mich.

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Please mention the Michigan Parmer when writing to advertisers.

DETROIT WHOLESALE MARKETS.

December 7, 1910.

Grains and Seeds.

Wheat.—There appears to be a great deal of conjecture in trading circles since conditions of the market and of the growing crop in different sections appear to change radically with the days. However, during the past week advances have been made in both cash and future wheat. This has occurred in spite of the emphasis given to the rains of the southwest where the crop was suffering from dry ground, and snows in the west and northwest where the protection was needed. But a European shortage is still conceded, and Argentine, although the past few days has brought her rains that have bettered the crop, will not offer to the markets of the world a normal amount of wheat. Speculators also claim to come in for a share in causing fluctuations, in that it is alleged that Armour is short a few million bushels and those having a surplus are trying to make him pay a premium for the necessary number of bushels to cover, with the result that prices have gone up a small margin. One year ago the price for No. 2 red wheat was \$1.20% per bu. Quotations for the past week are:

No. 2 No. 1

Red. White. May. July.

	No. 2	No. 1		
	Red.	White.	May.	July.
Thursday	.96	.95	1.001/4	.961/4
Friday	.95 1/2 1/4	.941/2	.993/4	.95%
Saturday	.961/4	.951/4	1.001/2	.961/2
Monday	.961/4	.951/4	1.001/2	.961/4
Tuesday	.963/4	.9534	1.003/4	.961/2
Wednesday	.961/2	.941/4	1.001/4	.96
0	rools b	ag not	hoon o	die_

Wednesday96½ .94¼ 1.00¼ .96
Corn.—The week has not been a discouraging one to those who have corn to sell. Advances were made and, while the market is dull largely for the reason that farmers are not bringing the cereal to the elevators but are keeping it in the cribs for feeding purposes, the cold weather that has now arrived will likely give the trade support. But a few thousand bushels increase is noted in the visible supply. Larger operations by feeders will aid in keeping prices firm, although from now on those who have a surplus of the crop will probably be putting it onto the market. One year ago the price for No. 2 corn was 59c per bu. There was an advance of 3c per bu, between Dec. 8 and the close of 1909. Quotations for the past week are:

tations	10	I.	ι	111	е.	1) (16	9		"		-	-	N	0. 2		No. 2
															Co	orn.	Ye	llow.
Thursda	v								:							53		56
Friday									è							54		57
Saturda	V															54		57
Monday																54		57
Tuesday																54		57
Wednes	da	ıy								 						54		57
0		TT	43	1		-		-		1	h	0	0		200	odvo	noo	heur

Oats.—Here, too, has an advance been made. The demand for oats is active. The market is steady at the new figures. The price for oats advanced three cents on this market during the month of December, 1909. One year ago the price was 43½c per bu. Quotations for the past week are:

past ween are.	Standard.	No. 3 White
Thursday	35½	35
Friday	36	351/2
Saturday		351/2
Monday		351/2
Tuesday Wednesday	36	351/2
The second secon		

Beans.—Contracts in this department are scarce and the prices given out by the board are not based on actually reported sales. The figures are the same as were given a week ago. The trend of the market for December of 1909 was steady. The nominal quotations are:

								ij			(Cash.	Dec
Thursday					Ċ.							\$2.08	\$2.0
Friday .	1											2.08	2.0
Saturday												2.08	2.0
Monday												2.08	2.0
Tuesday		0										2.08	2.0
Wednesda	av	7								i		2.08	2.0

terize this market. The trading continues to be active. While early reports were suggestive of a large yield of clover seed for the country, later reports are to the effect that the opposite is true. Alsike advanced during the week. Quotations are as follows:

Prime Spot. Mar. Alsike. Seed .- Improved prices charac-

Thursday\$8.75	\$8.85	\$8.75
Friday 8.75	8.85	8.75
Saturday 8.75	8.85	8.75
Monday 9.00	9.05	9.00
Tuesday 9.00	9.05	9.00
Wednesday 9.00	9.05	9.00
RyeMarket is higher	and firm.	Quo-

tation for No. 1 is 831/2c per bu.

Visible Supply of Grain	ns.
This week.	Last week.
Wheat42,990,000	42,485,000
Corn 1,545,000	1,452,000
Oats15,758,000	15,502,000
Rye 507,000	453,000
Barley 1,849,000	2,206,000
Flour Feed Provisions.	Etc.

ton.

Feed.—All prices are steady with those of last week. Carlot prices on track are: Bran, \$21 per ton; coarse middlings, \$22; fine middlings, \$26; cracked corn, \$25; coarse corn meal, \$25; corn and oat chop, \$24 per ton.

From Farmers' Wagons on Detroit Eastern Market.

Apples, potatoes and pork constituted the bulk of the offerings on the market.

Tuesday morning. Apples were selling from 75c@\$1.50 per bu., according to the grade and kind. Pork was in good demand at 10c per lb. Potatoes were generally quoted around 50c per bu. although there were offerings of inferior grades at a slightly lower figure. Chickens were selling at 12@15c per lb. Celery was quoted at 20@25c per bunch.

OTHER MARKETS.

Grand Rapids.

Potato buyers are unable to get refrigerator cars and with warehouses filled they have stopped buying at many loading stations and with plenty of cars the potato market would undoubtedly go to pieces. The market is very weak now, prices to growers ranging from 22@30c. The bean market is still flat, with quotations to farmers still on \$1.75 basis for white and \$2.25 for red. Quotations to farmers for live poultry, delivered, are as follows: Fowls and chickens, 10@11c; geese, 11c; ducks, 13c; turkeys, 18c. Veal is worth 6@11c. The egg market continues firm, fresh stock bringing 30c. Both dairy and creamery butter are off 1c. Dressed hogs are worth 8½@9c.

Chicago.

Wheat.—No. 2 red, 94@94½c; May, 96¾c; July, 94c per bu.
Corn.—No. 2. 49c; May, 48¾c; July, 49c.
Oats.—No. 2 white, 33¼@33¾c; May, 34¾c; July, 34½c.

Butter.—Creamery prices have been reduced 1c below Elgin, making a 2c decline for the week, but despite this fact the market is slow and rather weak. Dairies remain unchanged. Creameries, 23@28c; dairies, 25@27c per lb.
Eggs.—The egg business is largely confined to the better grades of frest eggs and prices have moved up another cent. Demand for storage stock slow. Quotations are: Prime firsts, 33c; firsts, 31c; at mark, cases included, 19½@22½c dozen.

Hay and Straw—Market firm in the

Quotations are: Prime firsts, 33c; firsts, 31c; at mark, cases included, 19½@22½c dozen.

Hay and Straw.—Market firm in the face of an advance of \$1 on all grades of hay. Straw unchanged. Choice timothy, \$20@20.50; No. 1 timothy, \$18.50@19.50; No. 2 do. and No. 1 mixed, \$13.50@16; No. 3 do. and No. 2 mixed, \$13.50@16; rye straw, \$8@9; oat straw, \$7@7.50; wheat straw, \$6.50@7 per ton.

Potatoes.—A decline of 2@3c is producing a little more activity in this market.

Potatoes.—A decline of 2003c is producing a little more activity in this market. Receipts are running ahead of the corresponding period last year. Choice to fancy are quoted at 43@45c per bu; fair to good, 38@40c.

Beans.—Market holding steady although business is glow.

Beans.—Market holding steady although business is slow. Pea beans, choice hand-picked, are quoted at \$2.18@2.23 per bu; prime, \$2.10@2.12; red kidneys, \$2.75@2.90.

New York.

Potatoes.—The announced quotations has been given to territory products. In are off two cents from those of last week. There is a fairly liberal supply. Demands is steady at 10 to 10 Michigan potatoes port, \$21.05; medium clear, \$21.02; smoked hams, 13½c; briskets, 12c; shoulders, 12c; pinnic hams, 12c; bacon, 180 life; pure lard in therees, 11½c; kettle rendered lard, 13½c. consisting the strendered lard, 13

to good do., \$30@40.

With 130 cars of hogs on the market today, market opened about a nickle lower than Saturday's best time, and closing about steady with the opening, with a good clearance of all that was yarded in time for the market.

We quote: Mixed, medium and heavy, \$7.55@7.60; mostly \$7.60; yorkers, \$7.55@7.60; pigs and lights, \$7.75@7.90; roughs, \$6.75@6.80; stags, \$5.25@5.75. Prospects look fair for the near future.

The market opened active today on handy lambs; most of the best handy weights selling at \$6.25 Heavy lambs slow and hard to sell. Most of the northern Michigan lambs selling from \$5.85@6, according to weight and quality. Prospects don't look much better, for the balance of this week. May sell a shade higher last of week with light receipts. Sheep were about steady today; most of the best ewes selling \$3.75@4.

We quote: Best handy lambs, \$6.15@6.25; heavy lambs, \$5.65@5.75; heavy ewes \$3.75@4; bucks, \$2.50@3.25; yearlings, \$4.75@6; wethers, \$4@4.25; handy ewes, \$3.85@4; cull sheep, \$2.50@3; northern Michigan lambs, \$5.85@6; veals, choice to extra, \$10@10.50; fair to good do., \$7.50@9.50; heavy calves, \$5.66.50.

extra, \$10@10.50; fair to good do., \$7.50@9.50; heavy calves, \$5@6.50.

Chicago.

December 5, 1910.
Cattle. Hogs. Sheep.
Received today 32.000 32.000 45.000
Same day last year. 25.810 22.540 21.782
Received last week. .72.659 148.480 142.642
Same week last year 82.724 153.655 106.093
This week opens with large receipts of live stock, the run of cattle and sheep being excessive, causing lower prices. The more attractive steers and butcher stock had a fair outlet early at steady prices, but other kinds were slow of sale at weak to 10c lower prices. Hogs were more active than ever at further advances of 10 affect, following last week's advance of 35c, while the weak cattle market followed last week's decline of 10@15c in heavy steers, butcher stock closing 10@15c higher Saturday than a week earlier. Hogs sold today at \$7.10@7.60, with a reported sale at \$7.65, best light selling a nickel below top. Hogs received last week averaged 230 lbs., compared with 218 lbs. a year ago. Shippers took 41.557 hogs in this market last week, and this new outlet is expected to continue. Lambs declined last week 35@50c, and sheep broke early, but closed 10@15c higher. Today lambs were off 15@25c and sheep broke early, but closed 10@15c higher. Today lambs were off 15@25c and sheep 10@15c. Lambs are selling at \$4.60.25, feeders paying \$4@5.65. Wethers go at \$3.75@4.30; ewes at \$1.75@4; bucks at \$2.50@3.25 and yearlings at \$4.50.50.50. Feeders have been buying wethers at \$3.25@3.75 and yearlings at \$4.45.0. A good many sheepmen are compelled to market their holdings, as bank loans are exhiring and heavy losses are suffered. and there will be no understating any defects. Of course, new outlet is expected to continue. Lambs declined last week 35@50c, and sheep broke early, but closed 10@15c higher. Today lambs were off 15@25c and sheep 10@15c. Lambs are selling at \$4@6.25, feeders paying \$4@5.65. Wethers go at \$2.50@3.25 and yearlings at \$4.50@5.50. Feeders have been buying wethers at \$3.25@3.75 and yearlings at \$4.60.50. A good many sheepmen are compelled to market their holdings, as bank loans are expiring, and heavy losses are suffered on lambs that cost them as feeders sweek, following Thanksgiving week, and there was such a surfeit of choice heavy beeves that this class continued to decline in value, for in addition to the arrivals for the regular market, there were the liberal numbers of prime beeves exhibited at the International Live Stock Exposition, besides the numerous lots intended for the great show and rejected as not up to the standard. The prize winners brought high prices, of course, and in the regular market there was a very fair outlet for handy little fat cattle, both steers and heifers, with yearlings usually outselling heavy cattle. The latter had to

Eggs.—Market strong under a lively demand which is pulling up prices on lower grades of fresh and on storage stock. Nearby eggs quoted at 52@55c; fresh gathered extras, 37@39c; firsts, 34@36c; fancor refrigerator stock, 254@26c dozen. Poultry.—Dressed show little change beyond a wider spread in values. Western chickens, 10@17c; fowls, 12@17c; spring turkeys, 15@22c. Live, chickens about steady; turkeys lower. Spring chickens, 114.@12½c; fowls, 12@13c; turkeys, 12@16c.

Boston./

Wool.—During the past week fleeces have been neglectc, but some attention steady cattle. The latter had to

go lower, and there was not the best kind of a market for the many short-fed thin cattle that were not adapted for feeders, but when offerings were on the stocker or feeder order they were bought readily, and much better prices were paid for desirable lots by country buyers. The great bulk of the beef steers sold between \$5 and \$7, with no large trading outside of these figures, the commoner class going at \$4.005.50 and the better class at \$6.507.50. As usual, yearlings topped the market, and any cattle that sold at \$7 or better graded as choice. Cowg and heifers had a good outlet at \$3.300.6.40, canners and cutters going at \$200.3.25 and bulls at \$3.2005.50, while calves sold for \$309.15 per 100 lbs. Milkers and springers were much less active than usual, bringing \$30070 each. Stockers were active at \$3.2505.25, and there was a strong market for feeders at \$4.7005.80, the best heavy feeders being in only moderate request. It seems safe to expect continued liberal marketings of "warmed-up," light-weight steers for several weeks and the outlook cannot be good for hish prices while this heavy movement is maintained. Stockmen should go in for producing a better grade of beeves and utilize the abundance of roughage, as well as cheap corn.

Hogs had several substantial advances last week that placed the market on a decidedly higher level, the marked increase in the eastern shipping demand, together with good buying of the choicer lots by speculators, being mainly responsible for the gratifying improvement. Stockmen expressed much satisfaction over changed conditions, and to a marked degree the disposition to ship in hogs prematurely received a sudden check. This is certainly a matter of encouragement, since there is great need of well-matured hogs to meet the large requirements of the meat trade at leading market; for fancy lots that were not extremely heavy. Later in the week the demand fell off materially, and there were sharp breaks in prices for lambs, and the decline in the feeder traffic had a bad effect, Ther

LIVE STOCK NOTES.

Hereafter every horse offered in the Chicago market will be examined before sale by an inspector appointed by the Union Stock Yards Company. This is a step that is highly appreciated by buyers, and it will undoubtedly result in materially lessening the differences that arise between buyers and sellers after sales take place. Every unsoundness, blemish or peculiarity of conformation that is discovered will be noted and pointed out before sales, and there will be no understating any defects. Of course, there may be hidden defects of respiratory or digestive functions that cannot

THIS IS THE LAST EDITION.

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

DETROIT LIVE STOCK MARKETS.

Thursday's Market.

December 8, 1910. Cattle.

at \$3; to Bresnahan 12 heifers av 573 at \$3.75; to Kamman B. Co. 11 butchers av 573 at \$4.30, 4 cows av 920 at \$3.75; 2 do x\space 4.50; to Kamman 2 cows av 1,090 at \$4.50; to Kamman 2 cows av 1,090 at \$3.75; to Kamman 2 cows av 1,090 at \$3.75; to Kamman 2 cows av 1,090 at \$4.50; to Kamman 2 cows av 425 at \$3.50; to Farker, W. & Co. 2 cows av 925 at \$3.75; to Rattkowsky 2 do av 1,150 at \$3.75; to Kamman B. Co. 4 butchers av 763 at \$4.50, 7 cows av 1,063 at \$3.50; to Rattkowsky 1 cow weighing 970 at \$3.25; to Korers av 967 at \$4.50, 7 cows av 1,063 at \$3.50; to Sullivan P. Co. 6 butchers av 843 at \$4.50, 3 cows av 967 at \$4.50; to Kamman P. Co. 6 butchers av 843 at \$4.50, 3 cows av 967 at \$4.50; to Kamman P. Co. 6 butchers av 843 at \$4.50, 3 cows av 1,063 av 853 at \$2.75; 6 was 840; av 853 at \$2.75; 5, 4 do av 806 at \$3.25; 2 do av 815 at \$2.75, 4 do av 1,070 \$4.25; tar feeding steers, 800 to 1,000; \$4.25; choice stockers, 500 to 700, \$4.25; fair stockers, 500 to 700, \$4.25; fai

Sheep and Lambs.

Receipts, 4,109. Market 15@25c higher than last week's close.

Best lambs, \$6.15@6.25; fair lambs, \$5.75.

@6; light to common lambs, \$4.50@5; fair to good sheep, \$3.50@4; culls and common, \$2.50@3.

Spicer & R. sold Street 51 sheep av 110 at \$3.25; to Sullivan P. Co. 55 lambs av 75 at \$5.75; to Stocker 16 do av 80 at \$6; to Newton B. Co. 36 do av 85 at \$6, to Newton B. Co. 36 do av 85 at \$6, 11 sheep av 110 at \$3; to Thompson Bros. 17 do av 105 at \$3, 44 lambs av 70 at \$5.80; to Barlage 9 do av 77 at \$6, 6 sheep av 120 at \$3.75; to Gordon 26 lambs av 65 at \$5.75; to Barlage 21 do av 60 at \$5.50, 8 sheep av 105 at \$3; to Mich. B. Co. 4 do av 130 at \$3.50, 45 lambs av 60 at \$6; to Fitzpatrick Bros. 38 sheep av 120 at

at \$5.75; to Barlage 21 do av 60 at \$5.50, 8 sheep av 105 at \$3; to Mich. B. Co. 4 do av 130 at \$3.50, 45 lambs av 60 at \$6; to Fitzpatrick Bros. 38 sheep av 120 at \$3.50; to Sullivan P. Co. 35 lambs av 65 at \$5.50; to Hammond, S. & Co. 64 mixed av 85 at \$4.75, 49 lambs av 80 at \$6.25; to Mich. B. Co. 24 do av 85 at \$6.25; to Fitzpatrick Bros. 31 sheep av 80 at \$4. Haley & M. sold Nagle P. Co. 65 lambs av 75 at \$6, 82 do av 75 at \$5.60, 27 do av 80 at \$6, 16 do av 100 at \$5.60, 7 sheep av 88 at \$4, 6 do av 115 at \$3.25, 9 do av 140 at \$3. 29 lambs av 72 at \$5.60.

Tubbs & S. sold Barlage 13 sheep av 80 at \$3. 28 lambs av 85 at \$5.75.

Bishop, B. & H. sold Sullivan P. Co. 39 lambs av 65 at \$5.75, 13 do av 80 at \$2.75, 17 do av 120 at \$3.65, 12 do av 100 at \$3.50, 19 lambs av 55 at \$8.25, 11 lambs av 85 at \$2.50, 13 do av 80 at \$6.15, 9 sheep av 180 at \$3.75; to Hammond, S. & Co. 11 do av 58 at \$2, 11 lambs av 85 at \$5.75, 14 do av 100 at \$6.15, 9 sheep av 180 at \$3.75; to Hammond, S. & Co. 11 do av 58 at \$4.75, 14 do av 85 at \$6.15, 7 do av 60 at \$5.37 do av 78 at \$6.15, 7 do av 70 at \$4.75, 14 do av 85 at \$6.15, 7 do av 60 at \$5.37 do av 78 at \$6.15, 7 do av 60 at \$5.37 do av 78 at \$6.15, 7 do av 60 at \$5.37 do av 78 at \$6.15, 7 do av 60 at \$5.37 do av 78 at \$6.15, 7 do av 60 at \$5.37 do av 78 at \$6.15, 7 do av 60 at \$5.37 do av 78 at \$6.20; to Mich. B. Co. 125 sheep av 105 at \$3.60; to Gordon 75 do av 110 at \$3.50, 16 lambs av 85 at \$6.25; to Hammond. S. & Co. 12 sheep av 100 at \$3.50, 16 lambs av 85 at \$6.25; to Hammond. S. & Co. 12 sheep av 100 at \$3.50.

to Fitzpatrick Bros. 16 lambs av 55 at \$5.50.

Kalaher sold Street 5 sheep av 110 at \$3.10, 14 lambs av 110 at \$4.75, 65 do av 75 at \$5.90.

Roe Com. Co. sold Sullivan P. Co. 18 sheep av 135 at \$3.50.

Hogs.

Receipts, 5,806. Market 30c higher than last Thursday. Packers bidding \$7.60@ 7.65; nothing sold up to noon.

Range of prices: Light to good butchers, \$7.65; pigs, \$7.60; light yorkers, \$7.60; stags one-third off.

Bishop, B. & H. sold Hammond, S. & Co. 1,687 av 190 at \$7.60, 669 av 200 a \$6.75.

Haley & M. sold same 450 av 180 a

#8.75.

Haley & M. sold same 450 av 180 a \$7.65, 230 av 170 at \$7.60.

Sundry shippers sold same 460 av 155 at \$7.60.

Spicer & R. sold Parker, W. & Co. 1,150 av 200 at \$7.65, 150 av 170 at \$7.60.

Roe Com. Co. sold same 960 av 200 at \$7.65.

Bishop, B. & H. sold Sullivan P. Co 655 av 185 at \$7.60.

Friday's Market.

December 2, 1910.

Xendall sold Sullivan 3 cows av 1,073

X kendall sold Sullivan 3 cows av 1,073

at \$3.50, 3 do av 843 at \$2.50.

Veal Calves.

Receipts, 598. Best grades steady; common, 75c@\$1 lower than last week. Best, \$8.50@9; others, \$4@8; milch cows and springers steady.

Haley & M. sold Parker, W. & Co. 1 weighing 140 at \$9, 2 av 170 at \$9.50, 8 av 125 at \$8.55.

Kalaher sold Parker, W. & Co. 13 av 140 at \$9.50.

Spicer & R. sold Hammond, S. & Co. 5 av 140 at \$8.25. 3 av 140 at \$6, 6 av 145 at \$8.

Leach sold Burnstine 11 av 135 at \$9.

Long sold Newton B. Co. 4 av 155 at \$9.

Long sold Newton B. Co. 4 av 155 at \$9.

av 150 at \$8.50, 1 weighing 110 at \$8.50.

Bishop, B. & H. sold Parker, W. & Co. 6 av 135 at \$8.50, 1 weighing 110 at \$8.50.

By 130 at \$3, 2 av 115 at \$8.50; to Newton B. Co. 2 av 120 at \$7, 12 av 130 at \$8.75, 5 av 130 at \$9, 2 av 125 at \$8.50; to Newton B. Co. 2 av 125 at \$9, 10 av 135 at \$8.50, 2 av 135 at \$9.

Co. 3 av 125 at \$7, 12 av 130 at \$8.75, 5 av 130 at \$9. 2 av 135 at \$8.50, 2 av 135 at \$9. 2 av 135 at \$8.50, 2 av 135 at \$9. 2 av 135 at \$8.50, 2 av 135 at \$9. 2 av 135 at \$8.50, 2 av 135 at \$9. 2 av 135 at \$8.50, 2 av 135 at \$9. 2 av 135 at \$8.50, 2 av 135 at \$9. 2 av 135 at \$8.50, 2 av 135 at \$9. 2 av 135 at \$8.50, 2 av 135 at \$9. 2 av 135 at \$8.50, 2 av 135 at \$9. 2 av 135 at \$8.50, 2 av 135 at \$9. 2 av 135 at \$8.50, 2 av 135 at \$9. 2 av 135 at \$8.50, 2 av 135 at \$9. 2 av 135 at \$8.50, 2 av 135 at \$9. 2 av 135 at \$8.50, 2 av 135 at \$9. 2 av 135 at \$8.50, 2 av 135 at \$9. 2 av 135 at \$8.50, 3 av 145 at \$9. 2 av 135 at \$8.50, 3 av 145 at \$9. 2 av 135 at \$8.50, 2 av 135 at \$9. 2 av 135 at \$9. 2 av 135 at \$8.50, 3 av 145 at \$9. 2 av 135 at \$9. 2 av 135 at \$9. 2 av 135 at \$8.50, 3 av 145 at \$9. 2 av 135 at \$9. 2 av 1



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THE MICHIGAN FARMER.

THE MOTHER'S QUEST.

(An answer to the poem bearing the above title, by Mrs. Anna Stearns, which appeared in these columns some months

BY FANNY J. MOON.

Yes, little mother, I heard your plea, Your sigh for vanished joys; I will take good care to bring them back, If I find your little boys.

My heart was touched by your anxious

Though quite beyond my ken s what to do, or where to seek, To find those little men.

But I'll look for those whose eyes are The laddies with curling hair— merry whistle, or shout of glee May show me those children fair.

I know how you miss the scattered toys And the sound of little feet— You miss the joy of the bed-time song— You miss the kisses sweet.

I know—for I miss my little girls— Have you seen them anywhere? With eyes of brown and eyes of blue And one with golden hair?

Where are my girls, my little girls, Who filled my home with light? They have been gone so long—so long, I wish they were here tonight.

It seems so long since I sang to them When snug in bed at night—
So long since they started first to school
And I watched them out of sight.

I long to hold them in close embrace, With soft cheek close to mine, As a sweet voice lisps the evening prayer, While arms my neck entwine.

Though our search be ever so earnest and long
Amid life's busy whirls,

m sure we'll never find again Our lost little boys and girls. But in young mothers and maidens fair, And boys grown manly and tall, I the loving thought they give to us I think we will find them all.

Then why should I grieve? Their chil-

dren come,
As jolly, as loving and bright,
They fill the old home with laughter and

Song— O why do I miss them at night?

THE BRIDE'S TREE.

BY MILDRED M. NORTH

"O Gertrude, I'm so glad you're really here! Let me take your suit-case, the horse and buggy are just behind the depot.'

Gertrude Armstrong had just alighted from the west-bound afternoon train which was disappearing around the curve beyond the little station, to be greeted thus enthusiastically by her friend, Marian Ames.

"You can't be more glad than I to come," returned Gertrude with an affectionate little squeeze of her companion's of Marian and Bess and Gertrude. "This neighborhood will always seem like home. I like our new home but not so well as the one we left. My favorite song is still "Michigan, My Michigan."

had owned a farm near the home of Marian's father, but had sold it and the family had moved to Virginia. Gertrude had come to spend two weeks of the holiday season with Marian.

"I've such heaps and heaps to say," said Marian as she led the way to the punch two holes in one side. Then they waiting carriage. "Two weeks won't be half long enough, even if we sit up nights. And I can't have you all to myself either," she mourned. "Everyone will be so glad to see you again."

around here looks so natural!" exclaimed for December! anion she said "Now hegin me, and I've been simply dissolving with fancy letters on the front.

serve the effect of her words, "Margaret rose-berries, holly and Christmas bells, Lee is to be married on Christmas eve."

"Really!-Do you think he half appreciates her?" questioned Gertrude.

have the dearest little bungalow all ready be glad to have them enter.

Margaret's sister Bess and I want to entertain for her next stars for bringing the wedding date and your visit in the same month. We need tion, to be Margaret's grandmother. your fertile brain. You'll help, won't

"I'm flattered, indeed, you little wheedler. Of course I'll be glad to do anything for Margaret. What is it you wish?"

"Well, we thought it would be nice to gifts on it. Can you write verses as easily as you used to?"

'My jingles? O yes. Once I get started there's usually no end to the nonsense that comes into my head," laughed Gertrude.

"What we want is fun," replied Mar-"We thought that if you could write ian. something to go with the gifts it would furnish lots of amusement."

Marian. "Christmas comes on Saturday. Margaret says they're not superstitious and she wants to be married on Christmas eve because her great-grandmother was.' 'Is everyone to contribute something

for the refreshments as we used to?' "Yes, we think it better, as it makes

less work for those who entertain." 'Why not send the invitations in rhyme, "That would be said Gertrude. a little out of the ordinary.'

"Splendid!" exclaimed Marian, "I knew you'd be just the one to think of things."

By this time they had reached the pleasant farm home of Mr. Ames and for the time being Margaret's tree was forgotten in the delighted welcome Gertrude received.

The family did not retire at an early hour, Mr. and Mrs. Ames had many questions to ask about Gertrude's family, and Marian and her sister Bess were so delighted to have their friend with them again that time flew fast. Marian was just growing drowsy when Gertrude's voice roused her. "Sorry, dear, but you started this thing. I think you'd better get me a pencil and paper and let me put down my 'firstly.' I may not be able to recall it in sober daylight."

"On one condition—that you let me see," replied Marian.

"Now?"

"Now, or no light," was the answer.

"Very well, we can't risk such a loss to the public," responded Gertrude. So, looking over Gertrude's shoulder, Marian read the lines which the next day the three girls wrote on sheets of note paper, sealing each small envelope with a tiny holly Christmas seal:

On Thursday, P. M., at half-past three, Month of December, day twenty-three, Come, if you please, to a pot-luck tea, Come with a gift for a bride-to-be, Also your favorite recipe, Cake, pie or pudding, whate'er it be;—The guest of honor is Margaret Lee.

At the bottom were written the names

The remaining days were busy, happy

Tongues and fingers flew, planning ones. to make the entertaining for a favorite friend a success.

gan."

"You might write some rhymes for A few years previous Mr. Armstrong things likely to be given," suggested Bess. "Then you won't have to overwork your If the cloth is snowy, if your smile is roor brain at the last minute. You sweet, haven't been used to our demands upon you for the last few years and I tremble for the effect upon even your robust constitution. We'll write them on cards and can have the giver's name written on the back and when it is all over Margaret can tie them all together for a reminder."

Mrs. Ames suggested the purchase of a blank book and that each guest "regis-"O, it's good to see you, and everything ter" by writing in it her "favorite recipe" which Gertrude had asked for in the in-Gertrude with a smile and a contented vitation. It was Bess who bought the little sigh as they started briskly down piece of dark green leather, such as is the smooth road. "What lovely weather used for burnt work, a trifle larger than the smooth road." This knife to you we bring. This knife to you we bring the smooth road. Gertrude with a smile and a contented vitation. It was Bess who bought the Who would imagine to the open book, and, removing the cover look out over the country that winter is of the blank book, folded the leather for just upon us?" Then turning to her a cover, punched holes through both and You tied it wrote that you had a great surprise for burned a spray of holly and "Recipes," in

curiosity ever since."

Thursday came at last. The house was "Well," replied Marian, "turning to ob- made festive with evergreens, scarlet The doors of the parlor were closed and bore a sign, "Sant A. Claus. My busy day." The parcels of the guests were "Everyone says he is a fine fellow. We smuggled thither and after all had ardon't know him very well here, but he's rived Gertrude and Bess disappeared for nice looking, at least. I don't mean just a while. Some time later Bess appeared good to look at; he looks good. He lives at the door and said that Santa was too about twenty miles from here and they rushed to see them but Mrs. Santa would

was so very sick they candles and Japanese lanterns. decided to wait. Now she's well again corner stood a tree about six feet tall, and the date is set for Christmas eve. hung with articles, while others were heaped about it. Beside it sat a dear week, and that is why I bless our lucky little old lady with cap, spectacles and knitting, who proved, on closer inspec-

"Come Margaret, sit here," she said. with a smile, laying her hand on a chair beside her. "You haven't had a tree all your own since you were a little tot. You couldn't reach the top of that one but you insisted on your father holding you Christmas tree and put all the up to reach the last thing all your 'own self.' Maybe you could reach the top of this one, but they'll bring the things to you, as you are guest of honor. They tell me you are to read out loud what you find with each one."

Margaret, her sweet face rosy with surprise, seated herself and the articles, one after another, were put into her hands. A flour sifter bore the couplet:

"When shall you entertain?"

"We think about Thursday," replied Her husband never ought to sputter.

A pile of basins held a card saying: These basins are like Uncle Job's wife, Mandy, He said his wife was "drefful handy."

To a spider handle was tied: Here's a black spider, but it won't bite, Fill it well and 'twill be all right.

Then came cake tins with this: Men like sweet things, especially cake, But make it good for his stomacn's sake

A big dishpan containing a crumb tray and scraper, and half a dozen pretty cups and saucers, admonished her:

Wash the cups and saucers up And brush the crumbs away; Always with a cheery smile Send him on his way.

To the end of a mop handle was tacked: I once read a tale of an Irishman's shanty Where dirt and disorder were everywhere plenty.

plenty.

Don't let yours be so, for here is a mop,
And on its nice stick fasten cloths 'ere
you stop.

To save yourself from domestic scandal
Never use this end of the handle.

Into a bright aluminum kettle

tucked this sensible advice: Stew anything you can find on the shelf, But never get in a stew yourself.

In a kitchen salt shaker she found: Now eatch your fish, (you've eaught your man) Salt and flour it and fry in a pan.

On the handle of a tea strainer was: Remove all grounds from your coffee and

And a pleasant smile on his face you'll

A dainty holder, knitted from yellow worsted in the shape of an ear of corn and having green ribbon loops instead of husks, had tucked within it:

This is to use with your coffee pot, For you'll find he likes his coffee hot.

Two thick ones fastened by strings to a belt said:

Tie this string around your waist, Then you'll find these when in haste. Tucked between the bars of a toaster she read:

Toast and tea is an old maid's dish But you may feed John some if you wish. This warning was in a roaster:

Here is a roaster—use it with care, Beef, pork or mutton, chicken or hare; Don't burn the meat, whatever you do, Else your good husband may sometimes "roast" you.

For her gift of a tablecloth Gertrude had written:

If you always give him something good

to eat,

to eat,
He'll be truly happy, well pleased with
his bride,
And tho' skies be cloudy, sun will shine
inside. A berry set from Marian read:

A berry set from Marian read:
When the fruit trees blossom bright,
Watch their dainty pink and white;
When fruits ripen in the sun,
Pick and can them, one by one;
When you put them in these dishes
Think of Marian's best good wishes,

A carving set from Mr. and Mrs. Ames

This knife to you we bring. Bess had given a pretty framed water

color to which had been added: This is to make the new home bright, Beauty and sweetness and love and light Make what it should be—a place just Beau Make wnu right,

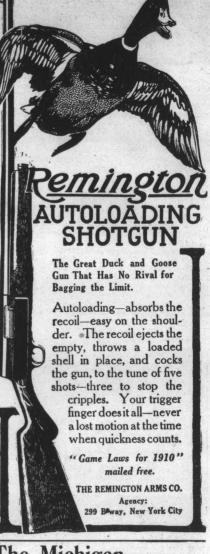
There were a number of articles, both pretty and useful, which bore only the giver's name, for, as Gertrude declared, 'they just wouldn't rhyme."

The last thing put into Margaret's hand was a card which read:

Go to the kitchen, like little Jack Horner, And see what you find in the southeast corner.
It proved to be a kitchen cabinet from Margaret's uncle and aunt, and it, too,

bore its card:

have the dearest little bungalow all ready be glad to have them enter.
to go to on the farm he owns. You see The big doors were opened, disclosing Seances will be held, you bet;
they expected to be married last fall, but a room with drawn shades, lighted by Many a shade (on her face) will appear,



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T ?? 30

Rappings (of spoons and dishes) you'll hear.
Many times will spirits sink,
And many times will rise, we think.

Of course, Margaret had not gone alone to the kitchen, and when the laughter had subsided Mrs. Ames led them to the dining-room. In the center of the table a looking-glass, removed from its frame, had been laid flat upon the cloth, bordered with cotton sprinkled with frost powder. Upon it was placed a tiny sleigh with Santa and reindeer. The jolly little man had his sleigh heaped to overflowing with holly and mistletoe.

After supper the guests departed, wishing Margaret "All things good and beautiful," and well pleased with the afternoon.

A GEOGRAPHY PARTY.

BY DORA B. PHILLIPS.

Invitations were sent out to twelve schoolmates to come and spend the evening, and wear or carry something to represent a city in the United States. As each guest arrived he was given a sheet of paper and pencil with instructions to write out the names of the different cities represented by the members of the party.

A fountain pen was to be given the one guessing the most names, and a dunce cap to the one guessing the fewest.

Red Wing of Minnesota wore a red wing in her hair; Lima of Ohio, a string of Lima beans around her neck; Parsons of Kansas, a black frock coat with a high collar and black cravat, and was guessed correctly by only one of the party; Elgin of Illinois and Waterbury of Connecticut both wore watches of the above names, and were easily guessed; Canton of Ohio wore a blouse of creamcolored Canton flannel and was guessed by only two. Reading of Pennsylvania carried a book from which he read a few sentences now and then. Auburn of Maine possessed a wealth of auburn hair, and remained undiscovered until the close of the contest; Deadwood of South Dakota carried a small piece of dead wood in the shape of a cane; Tombstone of Arizona sported a small watch fob of painted wood in the shape of a headstone. Helen Gray wore the letter A and but two of the party guessed Helena, Montana; Anna Dyer carried a slender pole and displayed the word "is." Only two guessed her identity as Annapolis, Maryland.

The guests were given an hour in which to guess the names. Meanwhile the hostess picked up a book; her father grabbed it away from her, and she began to cry, "Pa took it," "Pa took it," and only one guessed Pawtucket of Rhode Island.

SMILE PROVOKERS.

Mr. Penn-"The say the streets in Boston are frightfully crooked?"

Mr. Hubb—"They are. Why, do you know, when I first went there I could hardly find my way around."

"That must be embarrassing?" "It is. The first week I was there I wanted to get rid of an old cat we had, and my wife got me to take it to the

river a mile away." "And you lost the cat all right?"

"Lost nothing! I never would have found my way home if I hadn't followed the cat!"

A high school girl said to her father the other night:

"Papa, I've got a sentence I'd like to have you pnuctuate. You know something about punctuation, don't you?"
"A little," said her cautious parent, as

he took the slip of paper she handed him. This is what he read:

"A five-dollar bill blew around the corner." He studied it carefully.

"Well," he finally said, "I'd simply put a period after it."

"I wouldn't," said the high school girl; "I'd make a dash after it." "Joseph," said his mother, reprovingly,

"I should think you'd be ashamed to be in the same class with boys so much smaller than yourself." "Well, mother," replied Joe, "I look upon the matter a different way altogeth-

er. It makes me feel fine to see how proud the small boys are to be in the class with a big boy like me.

Announcer (county fair)-The next event will be a professional sack race for girls.

Visitor-What do you mean by profes-

sional? Announcer-Those who have wearing hobble skirts.



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SIX WILDWOOD TEASPOONS FREE!

Reliance plate is made by the Oneida Community and every piece is guaranteed for 10 years wear. It is for sale by all leading jewelers (6 teaspoons for 90 cents) and in offering it to our readers we can guarantee its quality.

Made on an 18 per cent Nickle Silver Base—5 oz Silver Plate—25 per cent heavier than Standard A-1.

This set of 6 teaspoons cannot be sold by any one for less than 90 cents, but we will send

The MICHIGAN FARMER Five Years and the Six Teaspoons for

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Instead of the six Teaspoons.

It is the same design and quality and guaranteed for 10 years wear.

For an order for 2 subscriptions (under above offer) we

will give the one sending the order an extra set of 6 teaspoons or an extra berry spoon.

The 6 teaspoons are Premium No. 194. The berry spoon is Premium No. 195. Always mention number.





Silver Berry Set. These three pieces are quadruple silver plate, full gold lined, crimped sides. The berry bowl (can also be used as a fern dish, nut bowl, etc.), is 7½ inches in diameter. Creamer and sugar each 3½ inches in diameter, not including handles. The three pieces, No. 476, given free for seven subscriptions. By express. If nine subscriptions are sent, we will prepay the charges.

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them.
So great has become the demand for such cards and so universal their use, that we have had our art publishers get out this beautiful series of 50 cards, all different, and masterpieces of the color artist's work.

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are finished with ivory surface, gold

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This complete set 50 cards free with one year's subscription to the Michigan Farmer at 75 cents, or two years' at \$1.20.

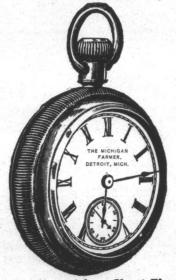
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Can be Earned in a Short Time.

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Stem Wind and Set. coins, and separate fold for bills. Size 2% This is a good, dependable watch and will last for a long time. We will send anybody this watch, FREE, postage paid, who will send us 3 (either 1, 2, 3 or 5 year) subscriptions to the Michigan Farmer. Cash price, 95 cents. Mention premium No. 175.

Beautiful Carving Set FREE

For a club of three subscribers to the Michigan Farmer. One of the subcriptions may be your own.

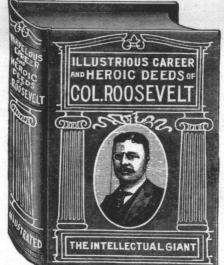
Two piece, Nickle Silver Carving Set, WAR-RANTED. Knife is 10 inches long and Fork is 7¾ inches long. Highly polished with beautiful design on handles. A beautiful ornament to any table, and at the same time serviceable.

NO MONEY REQUIRED

Only a few minutes of your spare time.

We will send you this beautiful Carving Set FREE for a club of 3 subscribers to the Michigan Farmer, and one of the subcriptions may be your own. They may either be for 1, 3, or 5 years, and all of the subscribers get FREE premiums as per the premium booklet. No doubt you have a couple of neighbors who will subscribe for the Michigan Farmer if you will ask them. It will only take a few minutes of your time and you will get FREE a Carving Set that would cost you \$2.00 or more at any Jewelers. If it is not convenient for you to get a club of 3 subscribers and if you would like to have one of these Carving Sets we will send you one for \$1.00.

The Michigan Farmer, Detroit, Mich.



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FARMER'S CLUBS

Address all communications relative to communications relative to communication of the fourth on account of Christman Cols.—At the October meeting of the Norvell Parmers' City, with Ex-Pres. L. D. Watkins and son, Mr. T. B. Halfaday discussed the care of four meeting of the Morvell parmers' city with the Free. L. D. Watkins and son, Mr. T. B. Halfaday discussed the care of four meeting of the Morvell Parmers' city with the farmer's most valuable asset.

Associational Motto—

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

THE ANNUAL MEETING.

As we go to press the delegates are gathering for the eighteenth annual meeting of the Michigan State Association of Farmers' City, beat of care possible, do the farmers really practice what the looks of some barmy and the color of the Michigan State Association of Farmers' City, next of care possible, do the farmers really practice what the looks of some barmy and the proper prepared to the high standard to the fourth on the Michigan State Association of Farmers' City next of care possible, do the farmers really practice what the looks of some barmy and the proper prepared to the high standard to the fourth on the meeting of the high standard the proper prepared for his bar of the farmer was also the proper prepared for his bar of the fourth on the meeting by the local Clubs which has been set in proposition of the fourth on the meeting by the local Clubs which has been set in proposition of the fourth on the meeting by the local Clubs which has been set in proposition of the fourth on the fourth of the fourth on the fourth on the fourth of the fourth on the fourth of the fourth on the fourth on the fourth on the fourth of the fourth on the fourth of the fourth on the fourth of the fourth on the fourth on the fourth on the fourth of the fourth of the fourth of the fourth on the fourth of the fourth the future meetings of the local organizations. The conference of Club workers is one of the most helpful features of the annual meeting. Here the delegates tell their associates in the meeting about the conduct of their several local Clubs. There are many new features and interesting points brought out each year in this conference which will prove helpful to other Clubs, provided the delegates make a note of them and incorporate them in their report of the meeting. Then the discussion of the resolutions offered will provide many helpful thoughts which may be carried home for the benefit of the local Club in case the delegates are alert to Club members whom the delegates rep- to send delegates was very small. In the

Altogether the report of these delegates may be made a source of inspiration in any local Club, and no mistake will be made if an entire meeting is given up to such reports and their discussion in any local Club. This opportunity is not always improved to the fullest extent in every local Club. But it should be this year, since the report of delegates to the associational meeting and a full discussion of the same may be made a most profitable feature of one or more meetings of any local Club.

CLUB DISCUSSIONS.

Farmer's Living.—"Do farmers The Farmer's Living.—"Do farmers live as well and economically as they ought to?" was led by Wm. Jubb. He thought we could not always tell by one's surroundings how well he ought to live and therefore ought to be slow in judging. This was followed by a lively discussion by Albert Cameron, Guy Hosley and others. Mr. Jewel, from Ohio, being present, was called upon to give a talk in regard to centralized schools. Next came the question box, conducted by Guy Hosley. The Club adjourned to meet

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

THE COMING STATE MEETING.

Another "All Michigan" Grange is the prospect before those who are planning to attend the 38th annual meeting of the State Grange which opens at Traverse catch them as they are presented. Last, City on Tuesday next. Last year, for but not least, the program itself will be the first time, every county in the state productive of beneficial ideas which may was entitled to representation in the be carried home for the benefit of fellow State Grange and the number that failed

good attendance of visiting members.

National Master Bachelder's annual address was a clear-cut, comprehensive statement of the growth and condition of the national organization and the present status of the various governmental matters, of a national character, which have claimed the attention of the Grange. Barring the year 1909, the past year saw the greatest growth in the history of the organization, 454 new and re-organized Granges having been reported. The receipts for dues by the national treasurer indicate a gain of 85,000 in paid membership, showing a net gain in every state except four. The total assets of the National Grange, as reported one year ago, were \$115,821.29, and the total assets Oct. 1, 1910, as reported by the treasurer, are \$118,825.23. This shows a net gain during the year of \$3,003.94, with about the same amount of unpaid dues and bills due since Oct. 1 as one year ago.

Federal aid for road improvement. he

Oct. I as one year ago.

Federal aid for road improvement, he declared, is favored by a good majority of the members of congress, the only problem being to devise a satisfactory plan by which the central government shall co-operate with the states in this work. He favored a measure following closely the lines of the Currier bill.

Parcels post legislation was vigorously urged upon congress during the year, the Grange being represented at the hearings by Bro. Atkeson, of West Virginia, who made it clear to the legislators that the farmers of the country are a unit in demanding a serviceable parcels post, and that they regard opposition to it as evidence of hostility to the public interests. Steps were also taken during the past summer to have local Granges acquaint the various congressional candidates with their desires in this matter.

Regarding a national income tax, the Master said: "The Grange favors the adoption by the legislatures of the various states of the pending constitutional amendment authorizing the United States government to levy a tax on incomes. Many of the states in which Grange Influence is strong have not yet taken action in regard to this amend-



With every one of the 84 counties entitled to membership, and with the addition of over 70 new Granges in the past year, the coming meeting bids fair to be the largest and most successful yet held in this state. The hospitality of northern Michigan Patrons was thoroughly tested last year and the Grange returns confident that, so far as Traverse City is concerned, the success of this year's meeting is assured. Last year's efforts in the way of making a display of the late that the election of the addition which could be devoted to road improvement, parcels post and other purposes of ment, parcels post and other purposes of pressing necessity to farmers.

Grange influence was held to have been largely instrumental in bringing about direct primary elections in various states, but, it was declared, while the submission of names of senatorial candidates to the people is a great improvement over the former system, this does not render it less desirable that the election of senatorial candidates to the people is a great improvement over the former system, this does not render it less desirable that the election of senatorial candidates to the people is a great improvement over the former system, this does not render it late that the election in various states, but, it was declared, while the submission of names of senatorial candidates to the people is a great improvement over the former system, this does not render it less desirable that the election of senatorial candidates of the people is a great improvement over the former system, this does not render it late that the elections in various states, but, it was declared, while the submission of names of senatorial candidates to the people is a great improvement over the former system, this does not render it late that the elections in various states, but, it was declared with the submission of names of senatorial candidates to the people is a great improvement over the former system, this does not render it late that the election of senatorial candidates to the peop

Discussing the high cost of farm products, Master Bachelder attributed the great discrepancy between the price paid the farmer and the cost to the consumer to bad roads, which increase the cost of marketing crops; to excessive freight charges based on watered stocks far exceeding the real value of the railways; and to exorbitant profits of the commission houses and others in the chain of communication between producer and consumer. An encouraging sign of the times is the formation of associations of farmers for the purpose of eliminating these abuses, and securing fairer treatment in the matter of freight rates, storage charges, etc., and it was recommended that the National Grange undertake the collecting of information demonstrating the advantages of co-operation, disseminating the same through Grange papers and the lecturers.

Provision by congress for securing a physical valuation of all railroad properties was proposed as a means of offsetting the concerted effort now being made by the great railway systems to advance freight rates. The Master also voiced the well known opposition of the Grange to ship subsidies, to a central United States bank and to the amendment or repeal of the present eleomargarine law.

Michigan Farmer's Club List.

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

EXPLANATION—The first column is the regular subscription price of the other papers. The second column gives our price for a year's subscription to both the other paper and Michigan Farmer. The third column gives the price at which the other paper may be added when three or more are ordered. Example: We will send the Michigan Farmer and Detroit Semi-Weekly Journal for \$1.35.

If, for instance, McCall's Magazine also is wanted add it at 40c making total \$1.75. Any number of papers may be added at third column price if they are for a subscriber to the Michigan Farmer.

If you want the MICHIGAN FARMER THREE YEARS and the other papers one year add 75c to the second column price. For the Michigan Farmer 5 years add \$1.25. We do not send samples of other papers. Address the publishers direct.

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

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

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

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

NAME OF PUBLICATION.	Set	ion	EX.	bo	ve.
Daily, (6 a Week.)		100	1	8	\$
Jany, (O a woom.)	2	50			
Journal, Detroit, Mich on rural route	5	00	5	00	4 5
Times, Detroit	14	UU	14	OU	10.0
	2	00	2	00	1 4
Courier-Herald, Saginaw, Mich., (inc.	2	50	2	30	16
News Cleveland Ohio	2	00	2	60	1 8
News Grand Rapids, mich. Courier-Herald, Saginaw, Mich., (inc. Sunday) on R. R. News, Cleveland, Ohio Tribune, Bay City, Mich. News-Bee, Toledo, Ohio	2	00	2	50	1 8
	2	00	2	25	1 0
Tri-Weekly, (3 a Week.)					1
World, New York, (3 a week)	1	00	1	45	7
Semi-Weekly, (2 a Week.)		1		111	
Journal, Detroit, Mich	1	00	1	35	7
Weekly Newspapers and Current Comment					
Plade Tolede Obje	1	00	1	05	3
Blade, Toledo, Ohio				10	
Lincoln, Neb	1	00	1	35	6
Lincoln, Neb	1	00	1	10	7
Cattle, Sheep Swine, Poultry, etc.		1			
American Poultry Journal, Chicago(m)		50	1	05	3
American Poultry Advocate, Syracuse,		50		00	
N. Y. (m)	1	50 00			8
	•	50			3
Breeders' Gazette, Chicago. (w) Farm Poultry Boston, Mass. (s-m) Gleanings in Bee Culture, Medina, O.	1	75 50	1	65	10
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Wis. (W)	1	00	1	45	1 0
Horse World, Buffalo, N. Y. (w)	2	00	2	00	1 5
Horseman, Chicago, (m)	2	00	2	30	1 6
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Is. (s-m)	1	40	1	05	3
Poultry Keeper, Quincy, Ill. (m)		50	1	05	3
Poultry Success, Springfield, O. (m)		50 50	1	05	4
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Ind. (s-m)		50	1	05	. 3
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A merican Magazine. (m)	1	00	1	70	9
Etude, Philadelphia, Pa. (m)	1	50	1	70	1 0
Hampton's Magazine, N. Y. (m)	1	50	1	75	11
Metropolitan Magazine, N. 1. (m)	T	50	1	90	1 0
McClures, Magazine, N. Y. (m)	1	50	1	80	1 5
Musician, Boston, Mass. (m)	1	50	1	80	1 1
Outing Magazine, N. Y. (m)	3	00	3	15	3 0
People's Home Journal, N. Y. (m)	1	50	1	50	1 5
Red Rook Magazine, Chicago, Ill. (m)	i	50	2	05	1 2
American Magazine, (m). Etude, Philadelphia, Pa. (m)	1	00	1	50	8
Ladies' or Household.	=			17	
		75	1	30	6
Designer, N. Y. (m) Everyday Housekeeping, Salem,					
Mass. (m)	_	50		15	3
Harper's Bazar, N. Y. (m)	1	00	1	00	1 0
McCall's Magazine, N. Y. (m)		35 50	i	10	4
Mother's Mag., Elgin, Ill. (m)		50	î	10	5
Modern Prescilla, Boston, Mass (m)		75		30	6
Mass. (m). Harper's Basar, N. Y. (m). Housewife, N. Y. (m)	1	00	1	50	1 8
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Little Folks, Salem, Mass. (m)	1	UU	-	90	-
American Bey, Detroit, Mich. (m) Little Folks, Salem, Mass. (m) Sunday School Times, Philadelphia, Pa. (w) Young People's Weekly, Elgin, Ill. (w)	1	00	1	55	8 7

(w-weekly: m-monthly: s-m-semi-monthly.)

FREE PREMIUMS.

Those subscribing for the Michigan Farmer in combination with other papers are allowed premiums just the same as if the order was for the Michigan Farmer alone. One premium only for every Michigan Farmer order. Orders for other papers alone will receive no premium papers alone will received under any circumstances. receive no premium

The above combination prices will advance after Jan. 1, 1911.

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I will send you a Harman Special Alectride Farm Tool Grinder, with ten Grinding Attachments, right to your farm for an absolutely free free trial lasting ten days. I will guarantee that this Alectride Grinder will not draw the temper from the steel. I don't want you to send me any money—not a cent. I want to make you an offer so liberal that you simply cannot afford to refuse it.

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We know that every progressive, up-to-date farmer realizes the advantage of always having sharp, bright tools to work with. You know how much more work can be done with tools which are always in good condition. know how much easier your work is and how much longer your tools last. You know all these things and yetyou DO sometimes work with dull tools, don't you?

I want to prove to you that you can easily keep all your farm tools in good condition all the time with this wonderful, simply wonderful, outfit which I will send you FREE.



And Alectride is the most wonderful abrasive in the world, even hard enough to scratch the diamond. It is really manufactured precious stones, for it is made of the very same substances which go to make up the sapphire and the ruby. Alectride is the most perfect grinding substance known. It is just as much harder than emery as emery is harder than ordinary chalk. A grinding wheel made entirely of pulverized South African diamonds would not grind one bit better or faster than the genuine Alectride wheels which we furnish with this superb machine.

Alectride is manufactured in the most terriffic heat which man has ever been able to produce. A heat so great that it will actually burn up a common brick like so much gunpowder. And in this incomparable heat is produced Alectride. It is the heat in which the worlds were formed. Every one of the beautiful irridescent, needle-like crystals is so hard that it will actually scratch the diamond itself. It is these crystals which are crushed up and made into the grinding wheels. It is these inconceivably hard and sharp crystals which cut through the hardest steel more easily than the finest emery wheel will cut through soft copper.

You can do the same work in two minutes on an Alectride wheel that would take you at least half an hour on a grindstone, and do it better. And you can operate the Harman Special Farm Tool Grinder for half an hour with less effort than would be required in running a grindstone for two

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Alectride wheels will not wear in spots or become lop-sided. They will not glaze over. They are not only hard, but they are equally hard throughout. There are no soft spots in an Alectride wheel. Alectride wheels will not draw the temper of the finest tool. The reason for this is that Alectride does not heat the article which is being ground as does an emery wheel or grindstone. Alectride cuts and cuts quickly—it cuts so quickly that the steel does not have time to heat.

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Sirs: The tool grinder shipped to this school has given good satisfaction and appears to be as guaranteed by you. I am enclosing photograph of the school and buildings, and you may use same and recommendation as you desire.

Warv respectfully.

Very respectfully,
W. C. RANDOLPH,
Supt. and Spl. Disb. Agt.

Government recommendation
means something. The Harman
Grinder was first tested carefully,
approved and purchased. Now, after
it has been used and proved its worth
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they KNOW—don't you think that
you should at least Th? this grinder when you can do so at no expense
to yourself and no risk? The grinder
MUST make good to your entire satisfaction or we want you to send it
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and see how much money it wit soe
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Most Useful Machine am

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I must say the grinder is far ahead of anything I expected it to be. No more hand power grindstones for me. When I want to sharpen anything I go and do fit without chasing up the second party by turn the stone. Not being used to sharpen anything I go and to all the sharpen and a backet. I am satisfied that it is the most useful tool or equal to any tool the farmer or anybody else has on his place. C. J. DOYLE, Orchard Farm, Westfield, Mass.

If Farmers Knew, All Would Buy

Sickle Grinding Wheel (Improved)
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Would Buy

I don't think any farmer would be without one of your grinders on his farm after he has an opportunity to try one. I think it is the best machine of the kind I ever saw. The Hone that received with my machine is the best stone I ever used, and I have used a great many different kinds. I have tried nearly everything that needs sharpening on a farm on this grinder and it has proven satisfactory in every case.

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Enacte Anuthing I Ever Saw

Beats Anything I Ever Saw Your Grinder is just what every man that has tools to grind should have. I am well satisfied with the grinder I to beats any grinder I ever saw or used. Enclosed find check to pay for grinder. EBER DePON,

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Seven Days Enough to

Prove Worth

I have had the grinder just seven
days and that is enough to show me
that it is more than you say it is, and I
have tried it on everything that I could,
and it beats the old grindstone all hollow, and I think you will make more
sales around here, as there has been
quite a few of my neighbors who have
seen my grinder work.

BERT LEWIS,

BOX 29, Larchwood, Ionus.

World Not Taylor Trutice Price

Would Not Take Twice Price After ten days' free trial with your Grinder I can say that I am well pleased with it and would not take more than twice the price for it II could not get another like it.

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have given it a thorough test. It is
much better than I expected, which is
enough to say I am well pleased with
ft. I would not sell it for double the
cost and do without out.

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