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DETROIT, MICH., SATURDAY, NOV. 18,

HE extension of the principles utilized in the automobile to fields of industrial pursuit is well known. Naturally, the greatest progress this line has been made in cities where streets are paved and a large amount of traffic carried on. However, the progressiveness of the farmer has quickly discerned the utility of these machines for transporting the products of his farm to the town or cities.

Within a radius of 30 or 40 miles of the city of Detroit, farmers have found it profitable to deliver fruit and vegetables upon the city market, since the increased prices secured more than pays for the expense and trouble of toting the products to the city. The expense of doing this, however, is no small item in the year's account, it being a common practice of the farmers living near the 30 mile route to pay \$10 per load to have their produce delivered in Detroit. As a result of this high expense, these farmers have turned their attention to the utility of the auto truck. At the present time there are 11 machines, including automobiles fixed over so as to fit them for carrying products, doing service on the Detroit eastern market.

It was the pleasure of the writer to accompany a party on a trip from the market to a farm over 30 miles distant and back again, on a one-ton auto truck The accompanying illustrations and the following facts were secured on this trip and from parties who have had a season's experience with the trucks. We submit them to the reader for what they are worth, knowing that many are considering the question of securing similar machines for use upon the farm, and will be interested.

The car employed had been in use on the Eastern Market throughout the pres-It had traveled about 12,000 ent season. miles. It is a double cylinder, 20 horsepower, measured according to the American League Automobile Manufacturers' rating, and 24 horsepower according to the break test. The platform was about 51/2 ft. by 10 ft. and of the stake-body The capacity of the truck was rated at one ton. The price of this car was \$1,300 when fitted with patent cushioned tires and \$1,150 when fitted with pneumatic or solid tires.

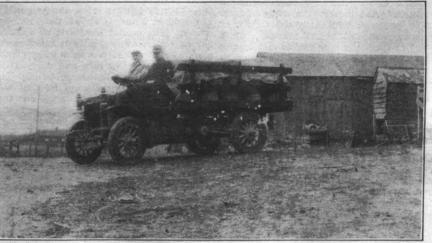
The trip in question was 64.3 miles ac- time. cording to the cyclometer. traveling time from Detroit Eastern Mar- exhausted through an oversight. hills about five miles to the northwest of been filled, when it actually had not been, the machine during the past year, one is

HE AUTO TRUCK ON THE FARM.

the city of Rochester in Oakland county, as discovered later. Inquiry of a party tion of the road was very good, consisting season. in first-class condition. much of it of a sandy nature, which, on past twenty years. were among the hills where steep grades the rating of the car.

was actually two hours and five minutes, who had been using the machine the no time was lost on the outgoing trip on past year showed that he had not failed account of the car. A considerable por- to reach the market on a single trip this

of city pavements until the city limits. The truck was loaded with fruit, conwas reached, cement road for a few miles, sisting of 38 bushels of pears, 111/2 bushsix miles of Royal Oak sand, then pos- els of grapes and four bushels of apples sibly 12 or 14 miles of gravel road which at the farm of Jacob Perry, who lives The re- near Goodison and who has been delivermainder was largely ordinary dirt road, ing fruit on the Detroit market for the The truck weighed this particular day, was wet, a condition alone 3.060 pounds and with the load of not altogether suited to power traffic. The fruit 6,190 pounds, making the fruit weigh last six or seven miles of the journey 3,130 pounds, or over 50 per cent more than were encountered, steeper, probably, than were carried on the car besides the load,



Ready for the Trip of Thirty Miles Back to the City.

would be found in most parts of our Mr. Perry, Mr. E. P. Telotte, who has state. In climbing these hills the truck been using the machine on the Detroit was compelled to go over long stretches Eastern Market for the past season, and of very stony road.

had fallen. The dirt roads were wet and apparently no shifting of the load whatmud holes of considerable length and depth were found. We give an illustration showing the machine in one of these.

The journey back to the city took two hours and 35 minutes actual running We stopped once on account of the The actual car, the supply of gasoline having become ket to the farm, which lies among the tank of the machine was supposed to have

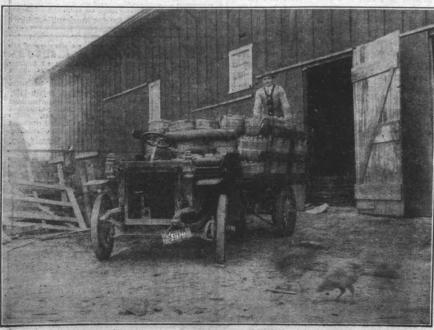
the writer. Our combined weights were The test was made on October 5, and about 500 pounds. The truck appeared to for two weeks previous excessive rains carry this load very nicely. There was ever on the trip. While making the outgoing journey bundles were laid on the over rough places it was seldom that they indicating the steadiness with which the vehicle held its load.

From observation on this occasion and the experience of those who have used

ssed with the fact that the fruit a better condition than when fellive. wagons. A little consideradeliver tion will this to be reasonable. In the first place, the fruit is on the road a much shorter time. It takes a good team eight or nine hours to cover this route, where the auto truck delivers it in two hours and thirty-five minutes. So, instead of the fruit being jarred for eight or nine hours, it is jarred in this case less than one-third the time. Then again, the rapid movement of the fruit through the air cools it. Anyone who has ridden in an auto, even on a still, warm day, knows that with a machine traveling at fifteen miles an hour, there is a stiff breeze and one feels like buttoning his This breeze has the same effect coat. upon the fruit. It has been the experience of growers that strawberries delivered on the truck, when sold beside those from the same field and of the same grade and picking, delivered on a wagon, brought higher prices, thus testifying to the condition of the fruit delivered.

An advantage which is often overlooked when considering this proposition of getting fruit to market with the auto truck, is that the farmer is enabled to watch both ends of the business. That is, he can have supervisory control over the harvesting of his fruit crops and at the same time attend to the selling side. With the auto truck he leaves the farm in the evening after supper, arriving on the market in good time to retire in the evening, sells his load early in the morning and is back home again between 9:30 and 12:00 o'clock. This enables him to look after the pickers, watch the packing of the fruit and do such other work as befalls the owner of a fruit plantation. With teams, the owner must apply his efforts to practically one end of the business alone, either that of harvesting the crop or disposing of it upon the market, leaving the other end to some subordi-

The final question to which all propositions of this kind are put is the cost, and the question, "Can I deliver my fruit more cheaply by use of an auto truck center of the platform and in traveling than by the old system of using horses?" is the one most interesting to the mawould be jarred from their position, thus jority of men. By as extensive an inquiry as it was possible to make, we find that an auto will regularly do the work of three teams on the route above mentioned, since a team cannot stand making (Continued on page 432).



Putting on a 3,130-lb. Load at Fruit Farm of Mr. Perry.



There were Stretches of Muddy Roads but they Caused no Difficulty.

FARM NOTES.

A Water Supply for the House. Is there any better way to store rain water for the kitchen sink and bathtub than in a tank in the attic? How can we have a well-water supply for closet?

Subscriber.

There is no cheaper way, which will afford fair satisfaction in use, to supply rain water to a kitchen sink and bath tub than to have a large tank in the attic. The writer has seen such a tank arranged instead of using a cistern, a galvanized steel tank being used in this case, which has a capacity of 30 barrels. water runs into this tank automatically from the roof of the house and and is discharged when the tank is full through an artificial wastepipe which prevents the water overflowing the tank. Service pipes deliver the soft water to the sink and elsewhere, as desired in the house.

For a supply of well-water under pressure, one can also use the gravity sysa better way. In the pressure system, the tank is placed in the cellar or buried in the ground as desired, and the water is forced into it under air pressure which is sufficient to drive it to any part of the house desired. Many of these systems have been installed in Michigan and give installed, and while a little more expen- shift device of this character. sive than the gravity system, are generally considered more satisfactory.

Preparing for the Alfalfa Crop.

I have a piece of sandy loam ground that I want to sow to alfalfa. Would it help any to get a good catch if I sowed the land to sweet clover first? Is sweet clover hay any good to feed and is it any good as a fertilizer to plow under? Kent Co.

B. C.

It would undoubtedly be easier to get a catch of clover on land that had first grown sweet clover, but it would not, in the writer's opinion, be profitable to sow sweet clover as a preparation for alfalfa for several reasons. First, unless the soil contained the bacteria peculiar to these plants, which are said to be identical on these legumes, the sweet clover would not succeed much better than the alfalfa without first inoculating the ground. Consequently one might as well alfalfa the ground for alfalfa and inoculate with soil from an old alfalfa field or from a sweet clover patch, which would provide the bacteria quite as well as growing the sweet clover on the land, previous to sowing the alfalfa. Of course, if the sweet clover or any other plant were grown and plowed down as a crop for green manure, the land would be improved for alfalfa or any other crop, but if the sweet clover were to be cut for hay, as suggested, this benefit would not be derived from it.

There is considerable difference opinion regarding the value of sweet clover hay. If it is cut early the stalks contain too much fibre, stock will be well nourished by it and will learn to like it, as attested by many who have had experience with it, especially in the It, however, has a peculiar odor and flavor which is not liked by stock as well as alfalfa or clover hay.

Quite a necessary preparation for alfalfa on much of our Michigan soil, is the application of lime, and wherever the crop has not been demonstrated to do well without applying lime, it would be profitable to use lime upon at least a portion of the area sown, as an experiment and determine whether the crop is benefited by it or not. The writer was unable to get a successful catch of alfalfa without the use of lime, but has must be watched for and rejected. These into the silo and wet them as we put apparently secured a very good stand this year on ground that was limed last year, both by sowing alone with a nurse crop and by seeding with oats. Notwithstanding the dry weather which completely burned out the clover seeded in price. The writer this year took special or feeding them whole. There has been the oats, there is a good stand of alfalfa which is making a good fall growth.

doubtless, an important factor for suc- task of hand-picking. cess and northern grown seed should be weather conditions to some extent, al- desirable to plant in checks for cultiva- the ground will be dry enough so that we though, other conditions being equal, tion both ways. most successful alfalfa growers believe Bean growing on a commercial basis with the machinery digger, but if we medium early spring sowing better than has made such rapid strides in the can't I don't know what we will do. summer, and even by late summer seed- now carry all the up-to-date machinery want to eat, and let the rest go. ings. With the demonstration that alfal- and the flail has given place to the steam potatoes have commenced rotting in

THE MICHIGAN FARMER.

in an experimental way at least, since pares with it, either in producing power in the quality of the forage produced. Blower Attachment for Cutting Box.

Can you give me an idea or plan for naking a small blower to put on a cut-ding box? My cutting box is made with cutters on the shaft.

knives on the St. Clair Co. SUBSCRIBER It would, in the writer's opinion, hardly be profitable to attempt to build such an attachment on a cutting box. If it is desired to have some arrangement which in my remembrance, have we had so will deliver the cut fodder at a little dis- much rain during one fall as we have had arrange a mechanical carrier, something like a straw carrier, which any man of inches of rainfall since the 26th of Sepordinary ingenuity could easily do. The tember, and we have had three heavy blowers necessarily have to run at high rains and a snow storm since then, speed and if takes considerable power to there must be between a foot and 15 although what is known as the drive them and where the cutting box is pressure system is generally considered not designed for this sort of an arrangement, it would be difficult to make one that we have made practically no prowhich would do satisfactory work. There gress in farming operations. are several cutting boxes and ensilage silage corn was planted late, and I tried cutters of this description on the market which are advertised in the Michigan Farmer in season, and their cost is not usually grow. Consequently, I put off so high but that one might better puruniversal satisfaction wherever they are chase a new one than to build a make-

THE BEAN CROP.

peculiar weather conditions of the past ents out of the crop, taking both varieincurring not a little loss. When is the had so much rain that we couldn't cut best time to plant beans? This is an the corn with a corn binder. It costs practice to accord with one's convenience required in handling loose corn for the or his adopted theory. An early seeding, silo, both in putting it on the wagon in it is reasoned, will catch the drouth of summer and fail to fill properly, while the late maturing crop stands in jeopardy nor as easily, consequently it takes more of prolonged autumn rains. Some years men. So I waited a whole week, then one practice proves its wisdom, then vice came another heavy rain and delayed us versa; again both or neither may give satisfaction.

In my own case the early plan was followed last spring, when a newly set cherry orchard was planted to red kidneys the last of May to give time for the to ripen in season to seed to rye and vetch. Though the drouth tried its destructive best, frequent cultivation saved the situation till the later rains finished the crop in fine condition and harvesting was completed the third week of September. Some beans in the neighborhood, planted late in June, were still in the ripening process when the wet Others were submerged weather came. after pulling before they could be properly secured.

A drive through the county the last days of October showed large fields of ought to have had and so my silos are beans still standing, cultivated clean as not quite full; still I have a good crop, a market garden, vines loaded with well probably 350 tors and it is in fairly good filled pods.

its greater market value, is raised greatly in planting a smaller amount of seed to in excess of the white varieties in this the acre. On this plot the ears got pret-section of the state. The color of the ty ripe and were large and well develkidney is a matter of commercial importance as the hull is used for dyeing. the corn; besides, when we couldn't work Well matured and cured seed has the de- on the land at all, we husked some of sired dark shade. Those gathered before the regular field corn and hauled the the pods are dry, while the bean is still stalks and cut them into the silo. In this pink; never later acquire the proper tone way I have the silos nearly full. and give the mass a mottled appearance have quite a start on the corn husking not pleasing to the trade. There is a now and if I can get the men I am going tendency in this variety to revert to to finish husking the entire 30 acres by original types and sports creep in which hand and then later on run the stalks are easily detected in the field, borne as them in. I'll have the room in the silo they are on long, trailing vines, and may to do it this year if I hold off until Debe discarded in pulling. sharply for the little purple intruders, greater feeding value out of them by showing their disfavor by docking the handling in this way than by shredding pains to select seed of fine appearance. so much wet weather that the cornstalks Already hand-picked were resort. Lime and inoculation on a good dry, ed, looking to uniformity of shape, size, wouldn't keep well in the mow. fertile soil are evidently the essentials and color. The result has justified the I have five acres of potatoes out and

fa can be successfully grown in Michi- bean thresher. Some popular features of gan, it will be made a factor in the the crop are the ease of raising, the cropping systems of more farms than abundant yield, its non-perishable charbefore, and even where it is not acter, and its ever welcome and good tried on a large scale it should be tried price in market. Its presence in the farmer's storehouse represents the possithere is no other forage crop which com- buty of cash; furthermore it has added an accumulation of nitrogen to the soil, while the straw and culls are still waiting for an accounting as stock feed eventually to contribute their substance to the enrichment of the earth.

Oceana Co. M. A. HOYT.

LILLIE FARMSTEAD NOTES.

Not in my experience in farming, nor tance from the box it would be better to this year. The weather bureau at Grand Rapids about two weeks ago reported 10 inches of rainfall since our first rain of September 26. The consequences are out two new varieties of corn for ensilage which are later than the kind I cutting the ensilage corn so as to catch this late variety at good advantage and at the same time not lose very much upon the earlier variety. The corn was ready to go into the silo the first week in October. That was jsut the time to get Of all the crops severely tried by the the largest per cent of digestible nutriseason, beans have been the hardest hit, ties of corn into consideration. But we open question, variously answered in more to cut by hand, and more time is the field and unloading at the ensilage cutter. Men cannot handle it as rapidly again. Finally, on Saturday, October 14, the ground got dry enough so that we could, by having heavy lugs on the wheels, run the corn binder, and we started it. The next Monday morning, the 16th, we began filling the silo. We had a fine day and put in a nice lot of it. Everything was working nicely but that night it rained again. An inch and onethird of water fell during one rain. didn't cut any more corn that week. Then the soil dried enough so that we cut another day and one-half, when it rained again. We worked that way and finally finished cutting on November 2.

My acreage of ensilage corn was a little bit short this year, and then, owing to the extremely dry weather during the summer, I didn't get the growth that I condition even though some of it is late. The red kidney variety, on account of On one portion of one field I experimented oped. I husked out the better part of Buyers look cember and I am sure that I will get a haven't dried well and probably

required for success with the alfalfa crop pains by giving a very even yield with not a hill dug. The ground at this writin Michigan. The source of seed is also, few culls, eliminating much of the tedious ing is so soft that you can hardly walk across it, not only that, but it is covered Close planting, so that the growing with snow. I bargained for a brand new secured if possible, especial care being vines form continuous rows, shading the potato digger this year but we haven't taken that no weeds are brought on to ground, secures the largest yield and, if set it up yet and I don't think I can use the farm with it, and especially dodder, weeds are not present, little hoeing is it at all. Of course, one never can tell which is destructive to the crop itself, necessary. But where weeds are a force what the weather will be. It may be The season to sow is dependent upon the to reckon with, or in an orchard, it is that November will be a nice month and can dig a portion or all of these potatoes We sowing at any other season, although county the last few years as to rival the will try and get enough of them out of good stands have been secured by mid- potato in importance. Implement dealers the mud so that we will have what we

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WHEN writing to advertisers just say "Se your ad. in the Michigan Farmer."

places and many of them will not be fit mangers and used for bedding, as it i

beets. I have a fine crop, about 15 acres shredded be pestered by having to reand an immense amount of tops to feed move the butts of cornstalks from manif we would ever be able to harvest them, ways of more or less bother. Instead of yet I have hopes that we can save the all this work and future bother, the uncrop. There hasn't been a November in eaten refuse goes for bedding and finally the last ten years but what we could out to the fields with the manure to help harvest the beets.

It has been my practice for the last leaving till spring we have so much work will lack time because we have beets and do any fall plowing it looks as if we

COLON C. LILLIE.

CORN HUSKING BY POWER.

by the other. The severe form is secured.

the farmer with brain-racking perplexity, more wagons and teams being required. In many sections of the state it is a serious one, good farm out-of-door help packed in the mow by tramping unless being secured only at an enormous price, while the securing of men to husk corn occasionally, a man is not needed in the by hand at a fair wage is almost impos- mow. Care should be taken to fill the sible. But on the farm where brains side farthest from the outlet first. have the right of way over brawn, the the nearer side is filled first the stover farmer will prove that he is bigger than will not come out of the mow without his work and will solve the problem. If, binding. By running the husked corn dihowever, the farmer has placed his trust rectly into a wagon-box as husked, to be in brawn instead of brains, then the snow may fly and old Jack Frost may be troublesome before his corn is half

corn shredder. The husking of corn by crop. However, conditions cannot always able conditions prove stumbling blocks. His progress is not stopped, for he over the difficulty of securing a corn shredder, the scarcity of labor and the wet weather, and has his corn husked and stover shredded at the same time by power, while his hard-working neighbor works the entire day on the damp ground, in a chilly air, with cracking fingers, aching legs and the everincreasing possibility of a disagreeable doctor's bill of no small proportions for some future day.

The husking of corn by power elim-

the corn stover increased by saving the and sow oats quite early. very best part uninjured from the weaththat stalk, and the corn husker shreds flourished. it into shape for the live stock to easily devour

Shredded corn stover makes an ideal What the animals do not eat of the der is much more so. stover may be easily cleaned from the Ottawa Co.

dig at all.

a good absorbent and easily handled. No We haven't started to harvest the sugar more will the farmer who has his corn At this time it doesn't look as gers and place them where they are alincrease the soil fertility.

The expense and labor of husking by few years to fall plow for sugar beets and power is surprisingly small. This is essome of the fields for corn, because by pecially true where several farmers exchange work in husking, One man can that we have to work the horses too pitch from the shock, onto wagons, all hard. We haven't plowed a furrow this the corn that a medium-sized machine fall and I do not see that we will be able will husk, provided it is in bundles. Two to, the ground is so wet, and we probably or three teams will draw it, from a reasonable distance, fast enough, and each potatoes to take care of. If we can't man can unload his load, although a boy or man to cut the bands lightens might need a traction engine in the the work. With a larger sized husker, spring to hustle up the spring work.

of course, more help will be needed, but more corn is husked and the job more quickly completed.

Sometimes it happens that the corn is unbound. Under such conditions the It is seldom; that one extreme is not labor of drawing to the machine is The proper way to load loose greater. drouth of last summer, when farm work corn so it will unload to the best advan-came nearly to a standstill, has been fol- tage is to place the butts all one way. lowed by a period of long continued A high standard should be placed at the During this wet autumn, farm- rear of the rack to hold the corn on and ers throughout the state have been hind- against which the corn should be piled. ered greatly with their fall work. In The man on the wagon always remains many instances the corn will not be upon the rack-bottom and piles the un-husked when cold north winds begin husked corn up high, working from the sweeping across the hills and through rear end toward the front. Loose corn the vales, unless outside help of some loaded in this way will always unload orm is secured.

easily and rapidly. However, only small,
Right here the labor problem confronts light loads can be put on, which means

> The shredded fodder should not be very dry. By adjusting the blow-pipe If shoveled out later, one man can attend to both stover and corn.

The corn crop husked by power will be husked and the score of endless odd jobs harvested and stored cheaper, quicker, re completed. with less waste, and will have a greater But to the farmer's rescue comes the feeding value than the hand-husked The farmer without a silo, but power under favorable conditions has with shredded corn stover in the mow, everything in its favor over hand husk- may practice indoor feeding without the tiresome work of carrying out cornstalk be expected to be most favorable, but butts, or the expense of heavy hay feed-the master farmer does not let unfavor- ing. All in all, the farmer's winter All in all, the farmer's winter chores will be lighter and pleasanter, while his stock will thrive better and his pocketbook be fuller.

E. S. C.

FALL PLOWING.

The soil on my farm is what is known as clay loam. In spots the clay crops out on top, but as a general thing the loam is from six to 12 inches thick above the clay sub-soil. It has been my custom to fall-plow my corn ground which is to be sown to oats in the spring, and to plow nates the loss of fodder experienced in to a good depth, so the frosts of winter Frequently the corn could pulverize and mix the sub-soil that shocks become badly damaged from the was turned up. This process of deep fall storms while still in the field. Prior plowing in the fall seemed to renew, and to being husked the shocks become to a certain extent, maintain the fertility weather beaten; then, frequently the of the soil, so that in most seasons when bundles of stalks are left after husking, the weather was at all favorable, I have exposed to the elements for a long pe-been able to raise a good paying crop of riod. With the shredder the corn crop oats without the use of commercial feris harvested and stored without this dou-tilizers. As my fields are a little higher ble weather exposure, and thus the feed- in the center than at the sides, when ing value cannot help but be increased. fall-plowed they quickly drain off in the And not alone is the feeding value of spring, so I am able to work the ground

Last spring when oats were sown in er, but the shredding of the long stalks this vicinity, the ground was in excellent and mixing them with the leaves and shape, and like my neighbors, I looked husks adds to the feeding value of the forward to a bumper crop. But our hopes stover. The writer has seen the faithful were soon blasted; because, in a couple cow and the thrifty yearling chewing a of days a flood came which washed and long stalk, only to finally give up from so saturated the soil that a large quanjaw fatigue before it was consumed, tity of the oats never came up. And There is feeding value in a portion of where oats did not grow, weeds grew and

There will be no fall plowing here this season, unless the weather conditions change soon. For the past two months it feed for indoor feeding. Indoor feeding has rained more or less every week and is very desirable during cold and stormy at this writing (Nov. 6.), a heavy rain is days, as live stock, especially cows, do falling, making the corn fields again very better if thus fed. The high price of hay wet and muddy. As nearly one-third of makes hay feeding unprofitable and a the corn is still standing in the fields unsubstitute that may be given in the man-ger very, desirable. The farmer without aging for those who are caught in this silage will find shredded corn stover of way. The corn that is unhusked is not more value this year than ever before. only considerably damaged, but the fod-

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Three Forks, Mont., March, 1910.

Your letter of recent date regarding my experience as a dry land homesteader in Montana received, and in reply will say: That I located 160 acres three miles south of Three Forks, Mont., on February 1, 1908, and commenced improving in the spring of that year. I built a two-room house, I a rough shed for a barn, and broke 85 acres of the land, which I seeded with Turkey Red winter wheat the following fall.

During the winter of 1908-1909, I cut fence posts and commenced

fencing the land, which I completed in the spring.

With practically no experience as a farmer I harvested from about 100 acres 2,540 bushels of wheat which I marketed for \$2,275. I understand that some of this wheat is now on display in the Chicago, Milwaukee

& St. Paul Railway exhibit car. My first year's crop will considerably more than pay for the improve-

ments, although I cannot give you the exact figures, as I am sorry to say that I did not keep a close record of the cost.

If I had this same crop to handle over again, with the experience I have gained from last season, I am satisfied that I could easily have gotten an

increase of 25 per cent by better cultivation.

Hope this will give you the information desired; however, I shall be glad to give you any further data I may have if this does not cover what

Yours truly. WM. L. IRVINE

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SHALL WE PRUNE THE ORCHARDS NOW?

Why not? Practically the only objection offered is that the wound may not readily. This may be true to some extent, but experiments have shown that wounds made at all seasons of the year were as variable in healing, some healing well, others poorly, but that the manner of making the cut was more responsible for poor healing than the season in which it was made. If the branch is cut close to the parent branch or trunk and nearly parallel to it and the cut is with a sharp saw or shears, it is quite likely to heal well no matter when If it is large it is well to put made white lead on the wound after the sap has dried down. This will fill up the checks and assist in preventing the entrance of moisture and fungi which cause rot. On young trees which require little pruning, and on tender trees like peach and plum, I would prefer to do the pruning in the spring as it will not take long anyway, and can be done after the buds swell so one can tell what branches are

But on old neglected apple trees I do not believe it is at all necessary to folany time between the falling and starting of the leaves, at least at any time when the wood is not frozen. We like to get considerable pruning done in the fall so it will not interfere too much with the spraying and planting in the spring. This reasoning is true of the general farmer also, for there is sometimes a little slack between the time the fall work is cleaned up and the winter when one can do pruning. If this time is utilized in trimming and thinning out the old orchard it will be well spent.

Without going too much into the details of pruning I will say that our method of treating old, high, and thick trees is briefly, this: We use a short ladder or step ladder to get into the tree and prune about overhanging branches which can not be well reached from the ground or the tree. We get into the center of the tree first and cut upwards and outwards, getting the dead branches and those which do not seem to be needed because others will take all the room they There is considerable to think occupy. of in pruning a tree. We should be able see how the tree will look with the limb out before we make the cut, also whether it would not be better to leave this limb and cut another instead. The vitality of the limb is a factor, also its direction of growth if it is near the top, as there we like to leave the more horizontal branches so the tree will not continue to grow taller. If the tree is taller than it is profitable to have it the more vertical limbs are cut off, taking care to make the cut just above a horizontal limb so this will take the growth and help to heal over the wound, otherwise there will be stubs to die back. If the tree can be cut back to the new growth some of the top, cutting it back somewhat, until new growth can start beneath the high top. After a few years more of tne top can be removed, and in time the tree can be cut back to the new growth which started beneath the high top. Of course, we can not expect much fruit on a tree of this kind for a few years until the new growth begins to bear, but we will get some from the top which is left. But to return to the thick tree, we

cut out the dead and surplus branches from the lower part of the tree first so it will be easier to get the branches down from the top. The branches are generally dropped down as cut or pushed to the outside of the tree, from where they are pulled down with a pole and hook. On thick trees it is sometimes necessary to get down several times and pull down the branches to enable one to see where to cut to advantage. large branches unless they are too high, but rather go out farther on the limb and leave no large "holes" in the tree and no even distribution throughout the tree and give as large a bearing surface as the tree will permit and still let in sufficient light and air. Crossed limbs are avoided the main branches radiating from the trunk to the circumference in as straight of the consumer's dollar.

a line as possible. As to the manner of making the cut, the fruit is better than the old, better ers who patronize the Eastern Market.

green wood surrounds it.

We use the Paragon saw almost exclusively for the main part of the pruning of old trees. This has a slightly curved blade with teeth on both sides, set to cut with a push cut on the convex side and a draw cut on the concave one. ables one to cut branches which could ing table, which we believe to be very not be cut easily with the push cut alone, near the exact cost, both as to original For small trees or taking out water investment and the upkeep of the two sprouts and thinning out the lower different systems. branches at the outside we use pruning shears with handles two to three feet too high to reach from the ground. This pruning is done after the center and tops. are thinned out, otherwise one might trim up branches which would be removed later upon getting into the tree.

From three to six old neglected trees can be pruned in a day, depending upon their thickness and size. I have worked a half day on one, but this is not common. Some trees will prune quite easily, low this rule in pruning, but to prune at others are more difficult. Much depends upon whether the branches grow horizontally or upright, and whether they are finely divided at the outside like the Spy, or more coarsely, like the Greening. The trees with many small limbs to be removed and those with much dead wood require more time to put them into shape than others.

Finally the brush should be taken to a safe distance from the trees and burned, and should not be left all next summer to harbor insects and be in the way of orchard operations.

S. B. HARTMAN. Calhoun Co.

CHANGE IN METHODS OF HARVEST-ING.

We do things differently from what we did in the old days. I can recall that, when a boy, we piled the apples in the wagon box and hauled them to town, where the buyer sorted them and barrelled them in his rooms, and we brought back the culls, and his check for those he took. This practice continued for many years, even after my boyhood was a thing of the past. Next we picked the apples and put them in piles in the orchard, and if it was a good fruit year the piles were apt to be large and the apples would sweat and ripen rapidly, so that it often the figures were taken from the books of happened that the fruit was damaged to quite an extent before it was taken from Eastern Market and are the results of the piles. Big loads of empty barrels were hauled out to the farm, and then the wagon are also from actual accounts; along came several men to pack the fruit and they had to be fed until the job was completed, after which we had to load the full barrels on the wagon and haul them to town, all together it was quite a job, with the three to five hundred trees.

wagon, with the adjustable rack on, is ing, is of no expense to the owner, except loaded with crates and driven into the the interest of the money which is investorchard where the fruit is placed in the crates and loaded on the wagon. When whether they are working or not: This a load is ready it is hauled to the buyer's is a matter which cannot be shown on the rooms in the city, where his men look table, but nevertheless is a real one and it over and pack right from the crates, one that would work out in favor of the and the culls are purchased for drying machine. or cider, and the farmer brings back his check only, or puts it in the bank and an average of the expense of the truck comes homes with a light load. This year on the market during last summer. The another change has come. The finest depreciation was calculated on the basis fruit is packed in barrels in the usual of the truck lasting five years. way, and paid for by the barrel, and the amount of gasoline used, and also of best prices received for large, fine, nicely cylinder oil, was an average struck from colored Spy and Baldwin has been only 30 trips made to the market. It is found \$1.50 per barrel, fruit that would grade that a one-ton truck requires but one galas "fancy," and bring fancy prices in the lon of oil for eight miles of travel. Of a few other kinds cities of the east. We seldom cut the best were put in barrels and brought garding the utility of an auto truck for the grower \$1.25, and all others, even nice this service when he had his attention Roxbury Russets, were piled right in first introduced to the subject. But his cut smalled branches. In this way few the car and the farmer had to be con- observations on the Eastern Market and large wounds are made and few large tent with 75, 60 and 40 cents per 100 lbs., the trip mentioned above, supplemented gaps opened in the tree. Our aim is to according to quality, and they had to be by the experience of those in when the hand-picked, too, otherwise they graded has the utmost confidence, has convinced places where the branches are too thick as "cider" and brought the grower 25 him that these machines offer a chance to let in the light and air, but to get an cents per 100 lbs. I should like very for reducing the cost of placing produce fruit which was shipped to the big cities be brought from a distance. Comparain bulk, cost the ultimate consumer, I tively speaking, the longer the haul the think it would make interesting reading, greater will be the margin between the whenever possible, the aim being to keep and cause the grower to try to think up cost of delivering with the auto truck some plan to gather in a larger share and with horses. It is estimated that an-

we try to get quite near the parent for the seller as well as the buyer. Where branch and nearly parallel to it. It is fruit was piled in the wagon box and allowable to cut a half inch to an inch haufed to town over the rough roads, back on the lower side on large branches much of it was bruised, and so to a great to escape part of the bulge which is quite extent damaged as to keeping qualities. common on the under side of many Now, being placed in crates, with only a branches, especially with certain varie- bushel in each compartment there is litties. However, I would rather have a tle pressure, and little chance to be rubwound a little large than to go to far bed and damaged, the farmer is not bothfrom the crotch. If the branch is dead ered with the men who pack, and the it will saw better at its base where the buyer has his business all under his eye. Eaton Co. APOLLOS LONG.

THE AUTO TRUCK ON THE FARM.

(Continued from first page). the distance one way every day. Figuring on this basis, we deduce the follow-

Cost.

Original investment with horse system

Total\$1,230.00 Operating expenses, depreciation and up-keep required to a single day:

\$1.15 ... 2.30
Grain for three teams ... 1.50
Shoeing bills ... 43
Repair bills ... 30
Depreciation ... 40

.....\$7.93 Original investment with Auto Truck: One Auto Truck, one ton\$1,300 Operating expenses, depreciation and up-keep reduced to a single day:

Total\$3.92 These figures show that the initial cost of equipment is a little more for the auto truck, providing the patent tires are used but a little less fitted with the solid rubber or pneumatic tires. The operating and upkeep expense show a daily advantage of \$3.99 in favor of the auto truck.

Some of the items in the above table should be explained. A wagon fitted for transporting fruit costs more than an ordinary farm wagon with a single box; the above price is what fruit growers actually have to pay. The grain item for the teams may be questioned by some. The teams used for transporting fruit are fed four times per day with a feed consisting of from five to six quarts of good oats. The shoeing bill may seem large to an ordinary person, but the man who has driven teams on the road day after will appreciate its reasonableness; a farmer drawing fruit to the Detroit actual experience. The repair bills for tires and spindles need to be repaired quite frequently and make up the largest part of the repair bills. The depreciation is figured on the basis of a rig lasting ten years, which appears to be about the average for this kind of work.

We have had our attention brought to Now days we do thing differently. The the fact that the auto, when not worked, whereas horses require to be fed

The repair bills for the auto truck was

The writer was ewhat skeptical to know what this hand-picked on the market, especially where it must other season from 30 to 40 machines will Of course, the new way of marketing be in service drawing produce for farm-

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 needed. No extra labor required.
- ABILITY TO OVERCOME

WIND
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HAS VARIED SUCCESS WITH AU-

Being in the apple business myself, I believe I can add a little to Brother Hartman's article in The Farmer of November 4. He says his success in controlling was variable, so, also, was mine. He did not give the July-August spray and laid his trouble to that, or rather inferred that the trouble might have been there. Now I did give the late summer spray and thoroughly, too. And I had worms that I could not account for, especially in the Kings, Baldwins, Russets and Rambo. The Spy, Greening, Wagener, Maiden's Blush, Hubbardston, St. Lawrence, Stark, and Winter Sweets were exceptionally free from worms, not more than one per cent were affected. All varieties were given exactly the same treatment and the results differed widely, the first mentioned varieties were at least 50 per cent wormy.

I may be wrong but my theory is this: Last spring it warmed up very suddenly just as the petals were falling, and, if growers will put on their thinking caps and go back to that time they will remember that the time between the falling of the petals and the closing of the calyx was limited to but a few days. And I, for one, realized that the apples were pretty far along, for effective work with the codlin moth, before that spray was completed. It seems to me that the apples which developed the fastest during that warm spell were the wormiest. R. G. THOMAS. Berrien Co.

STRAWBERRIES FAILED FOR LACK OF WATER.

At the present time I am considering quite strongly of discarding the strawberry crop if I cannot get some better way of growing them. This makes the third season that my berries have only been about one-third of a crop. Failure has been due principally to lack of rain. My farm is quite rolling. I have one field which is 11 to 20 rods wide and contains nearly seven acres, which I have been using for strawberries. I have used most all the manure made from six head of stock on my strawberry beds. Last year I applied the manure at the rate of 50 loads per acre, and that part of the field yielded the poorest. I have had in ten years not exceeding 15 bushels per acre. The soil is quite sandy, and the manure was all fine. It was applied as top-dressing and thoroughly dragged in. Where there was no manure they did much better. The berries were set three rows of Warfields, one Pocko, and one Where I fertilized with Dunlap mostly. Bederwood and Early Mitchell the crop was very poor. The bulk of what I set this year (3½ acres) I set two Dunlap and two Warfield. I have had one good crop of late berries in five years. were Gandy and Sample. This year I set Aroma and Sample but there is about one plant growing where I set six. take them all up for plants and try them Now I would like to one more year. know if any of the readers of the Michigan Farmer have had any experience in watering their strawberries. I tried one year to draw water in a tank but found by putting it on the vines it did more damage than good. I have had the idea in mind of trying a sort of irrigation plant. I think a rock well will water one acre. It is about 30 ft. to rock here, which is about 30 ft. thick. By placing a windmill on each well and letting the water run down each row I believe the ground would warm the water before it got to the roots of plants. I set the plants four feet by 28 inches. A large tooth on cultivator would make a small ditch in the center of the row for the water to follow. The cost of windmills is about \$35 apiece, or perhaps more. The pipe and pump are all the other expense necessary. I could drill the wells myself. The expression of readers as to their experience and ideas along the above line would be interesting at this time and so many are considering the advisability of installing irrigating plants. I have arrived at the conclusion that water is more essential to strawberries than any other condition I can bring

Michigan Horticulturists hold their 41st annual meeting at Ludington, December 5-7. A practical and timely program by growers and marketers of note is being arranged, and displays of fruit, tools, power sprayers, appliances, etc., will furnish a feature of rare educational value. The annual banquet will be held on the first evening.

WeGetaSlap

The big coffee trust, made up of Brazilian growers and American importers, has been trying various tactics to boost the price of coffee and get more money from the people.

Always the man who is trying to dig extra money out of the public pocket, on a combination, hates the man who blocks the game.

Now comes a plaintive bleat from the "exasperated" ones.

The Journal of Commerce lately said "A stirring circular has just been issued to the coffee trade." Then the circular proceeds:

"The coffee world is discussing what is to be the future of coffee as a result of the campaign of miseducation carried on by the cereal coffee people. We have before us a letter from one of the largest roasters in the South asking what can be done to counteract the work of the enemies of coffee

"The matter should have been taken up by the Brazilian Gov't when they were completing their beautiful valorization scheme."

Then the article proceeds to denounce Postum and works into a fine frenzy, because we have published facts regarding the effect of coffee on some people.

The harrowing tale goes on.

"Where a few years ago everybody drank coffee, several cups a day, now we find in every walk in life people who imagine they cannot drink it. (The underscoring is ours.) Burly blacksmiths, carpenters, laborers and athletes have discontinued or cut down the use of coffee; as there is not a person who reads this and will not be able to find the same conditions existing among his own circle of acquaintances, is it not well for the Brazilians to sit up and take notice?"

Isn't it curious these "bur-

ly" strong men should pick out coffee to "imagine" about? Why not "imagine" that regular doses of whiskey are harmful, or daily slugs of morphine?

If "imagination" makes the caffeine in coffee clog the liver, depress the heart and steadily tear down the nervous system, bringing on one or more of the dozens of types of diseases which follow broken-down nervous systems, many people don't know it.

But it remained for the man who has coffee, morphine or whiskey to sell, to have the supreme nerve to say: "You only imagine your disorders. Keep on buying from me."

Let us continue to quote from his article.

"Notwithstanding the enormous increase in population during the past three years, coffee shows an appalling decrease in consumption."

Then follows a tiresome lot of statistics which wind up by showing a decrease of consumption in two years of, in round figures, two hundred million pounds.

Here we see the cause for the attacks on us and the Brazilian sneers at Americans who prefer to use a healthful, home-made breakfast drink and incidentally keep the money in America, rather than send the millions to Brazil and pay for an article that chemists class among the drugs and not among the foods.

Will the reader please remember, we never announce that coffee "hurts all people."

Some persons seem to have excess vitality enough to use coffee, tobacco and whiskey for years and apparently be none the worse, but the number is small, and when a sensible man or woman finds an article acts harmfully they exercise some degree of intelligence by dropping it.

We quote again from the article:

"These figures are paralyzing but torrect, being taken from Leech's statistics, recognized as the most reliable."

This is one of the highest compliments ever paid to the level-headed, tommon sense of Americans who cut off about two hundred million pounds of coffee when they found by actual experiment (in the majority of cases) that the subtle drug caffeine, in coffee, worked discomfort and varying forms of disease.

Some people haven't the character to stop a habit when they know it is killing them, but it is easy to shift from coffee to Postum, for, when made according to directions, it comes to table a cup of beverage, seal brown color, which turns to rich golden brown when cream is added, and the taste is very like the milder grades of Old Gov't Java.

Postum is a veritable food-drink and highly nourishing, containing all the parts of wheat carefully prepared to which is added about 10 per cent of New Orleans molasses, and that is absolutely all that Postum is made of.

Thousands of visitors to the pure food factories see the ingredients and how prepared. Every nook and corner is open for every visitor to carefully inspect. Crowds come daily and seem to enjoy it.

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THE SOWS AT BREEDING TIME.

suitable should be rigidly discarded, resulting are minimized. Brood sows need to be culled just as Brood sows need to be culled just as The time to begin breeding can be demuch as do dairy cows. If the ones that termined by first deciding the time of would likely be unprofitable if bred are upon the superior ones which are retained and far more profit secured.

if possible, a gaining or growing condition at breeding time. While experiers does not show it to be a fact, yet it or early December. is agreed by practically all practical hog men that a sow that is gaining is far more apt to catch at the first service. It is a mistake to change the sows from pasture to dry lot at this time. They should have succulent feed with plenty of protein and with abundance of exercise to keep up their vigor.

The boar needs careful looking after. If he is a boar that was used last year and whose work as a sire has been entirely satisfactory, he usually can be depended upon if he has had sensible care during his idle season. A young boar will need very close watching.

It is not good practice to allow the boar to run with the sows at breeding time. In the first place it is injurious to the boar. It allows him to reduce his vitality by excessive service and thereby lessens his breeding powers, making him less satisfactory as a sire. Many boars have become unable to get sows with pig through such excessive service at the beginning of the season. To keep the boar in a pen separate from the sows and allow him just one service conserves his vitality and pigs resulting from service at the end of the season will be just as good as the early ones.

To keep the boar away from the sows enables a careful record to be kept of the breeding date. One hundred and twelve days is about the length of time sows usually carry their pigs. By figuring that number of days ahead from the breeding date, the probable day of farrowing can be determined. The date of service should be carefully recorded for that reason. If that is done there need be no guesswork about the time the sows are to farrow. No loss of pigs need occur on account of the pigs coming sooner than had been expected.

If the herd is pure-bred and pedigree records are to be kept of pigs produced, all the more care should be exercised in recording the breeding date. The sow's number should be recorded and that of the boar if there is more than one boar in service. Each day all breeding entries in the small herd book should be copied into a larger register or journal as an extra precaution. The day-book might be lost, as is often the case. When that happens the records will be safe and secure in the large register if they have been transferred to it, as they should be. The loss of a note book in which entries had been made and from which they had not been copied has caused many a breeder grief and, in case the book was not found, often it has caused the loss of money.

a number of sows if handled rationally. to an attempt on the part of the railroads Last year in the writer's work a sixteenmonths' boar was used on 43 sows and bred seed, which the breeders were at-all bore pigs although some of the sows tempting to distribute in the localities were bred for three successive heat pe-tributary to the lines of the railroads. riods before they conceived. The num- In other words, instead of doing all posber of sows allowed the boar was entirely sible to encourage and facilitate the distoo large, yet circumstances made it tribution of pure-bred seed among the necessary to use the same boar on all farmers contributing traffic to the lines, these sows. The breeding season was and securing their returns in the inmade unnecessarily long and the boar creased traffic, due to the production of was very badly reduced in weight al- more and better live stock, the railroads though he recovered very nicely after- were attempting to secure their profits ward. This year on the same farm two from charges incident to the distribution boars will be provided for 50 sows. Prob- of the better seed. ably that is nearer the number that should be allowed.

rest on Sunday are as many as should authorities, and if necessary, to the Inordinarily be allowed. In the case men- ter-State Commerce Commission. tioned above a third service was some. Breeders throughout the United States times permitted but that is not advis- will confer a special favor upon the plenty of it during the season. Protein if they will report specific cases where is needed as much as ever an animal they have been obliged to provide an atneeds protein. Some shorts with tank- tendant and pay charges incident thereage or oil meal should be fed liberally to, to Sec-Treas. Wayne Dinsmore, Chito insure that he gets plenty of protein. cago, Ill., who has charge of the collec

tone and vigor and to make him active; service

A breeding crate should be provided. It will enable a big sow to be served by small boar satisfactorily. A heavy boar may be used on a small sow and no ill results occur: A breeding crate, final culling of sows ought to be if properly constructed, will support the made before any breeding is done in the greater part of the weight of the boar All sows which have remained in during the act of service and the danger the herd and which are in any way un- of injury to the sow and of poor service

year it will be most desirable to have gotten rid of, better care can be bestowed the pig crop put in its appearance. Then if approximately 112 days are counted back from that date, the time to begin The sows should be in a healthy, and using the boar will be secured. For instance, if it is desired to have the pigs begin coming late in March, the breeding mental work done by the writer and oth- should be commenced in late November

H. E. MCCARTNEY.

SEEK MORE EQUITABLE TERMS FOR SHIPMENT OF PURE-BRED STOCK.

At a meeting of the executive committee of the National Society of Record Associations, held at the Great Northern Hotel, Chicago, Ill., September 30, 1911, the chief work transacted was the consideration of the present rates on shipment of pure-bred live stock, in less than carload lots, and the varying railroad requirements in connection same.

A large number of specific cases were submitted, wherein shippers of pure-bred live stock had been required to furnish an attendant to personally accompany such pure-bred live stock and to pay full passenger fare for said attendant, both going and returning.

As an illustration, it was shown that the freight rate on shipment of one purebred bull, from the vicinity of Chicago to Knoxville, Tenn., would be \$22.50, while the expense of passenger fare for the attendant and the cost of his employment for the time required, together with cost of meals and incidentals enroute, would amount to more than \$50, making the total charges in excess of \$70, which breeders will readily recognize is practically prohibitive.

It was brought out that the roads operating north and west of Chicago have no such burdensome restrictions, and that they accept and handle pure-bred live stock in less than car load lots with-out quustion. The southwestern roads and the roads in the southern classification, appear to be the ones which are the most serious offenders.

President B. O. Cowan stated that the matter had recently been brought to the attention of the live stock agents in Missouri, with the result that the railroad regulations on roads operating in that state had been amended so that they no longer require an attendant with such shipments.

Director Curtiss called attention to the fact that the railroads which were imposing these requirements were pursuing a very inconsistent course, in that many of them were at the same time furnishing, free of charge, trains for the dis-semination of agricultural information, with a view to improving the agricultural methods in the districts tributary to their line; and it was pointed out that to burden live stock breeders with the necessity of providing an attendant in charge with shipments of pure-bred live stock, in less A strong, vigorous boar can serve quite than carload lots, practically amounted to secure their profits by taxing pure-

A committee was appointed to collect all possible specific data and to prepare Two services per day with complete the same for presentation to railroad

The boar needs good feed and National Society of Record Associations, He needs some exercise to keep up his tion of information for the committee.

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Emmett White, of Kalo-

Emmett White, of Kalo-na, Iowa, writes: "I would not take \$500 for what you have taught me. You may ju I tell you that I have been ab an automobile solely through your excellent methods. I am J 8 Hours!

A. L. Dickenson, Friendship, N. Y., writes: "I am working a pair of horses that cleaned out several different men. I got them and gave them a few lessons and have been offered \$400 for the pair. I bought them for \$10."

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LIVE STOCK NOTES.

This item of news from Colorado furnishes a fair illustration of the great shrinkage that has been going on in the range stock growing states in recent years. The assessor of Logan Co., Col., found only 846 sheep in the county this year, while ten years ago there were 18,-000, and he returned the number of cattle as 15,000, compared with 40,000 in 1901. The grazing land in Logan county ten years ago was recorded as 406,000 acres, and the 1911 record shows only 185,000 acres. Now there are 75,000 acres of irrigated land, besides about 250,000 acres of "dry farm" land, while ten years ago the agricultural land amounted to only 27,000 acres.

ago the agricultural land amounted to only 27,000 acres.

For several weeks the leading Chicago commission firms engaged in selling milch cows have been advising country shippers to hold back all backward cows and to keep them on pasture at least until they come within a week or ten days of their time for calving. For quite a number of weeks the demand for backward springers has been extremely poor and in nearly every instance sellers have had to rely on killers to take them off their hands, prices paid being extremely low, as is always the case when they go for slaughter. Dairymen naturally are unwilling to buy cows that have to be carried along for several weeks or months, as the cost of feed meanwhile amounts to a considerable item, and they want cows that will produce milk from the date of purchase. The demand all along has been for good fresh cows and springers with full bags, and the call for prime Holsteins at fancy prices usually exceeds the supply. Extra choice cows sell for \$70 to \$75 and even higher, now and then, owners usually refusing to part with high-grade milkers at any price. Countrymen with good autumn pasturage have had a good opportunity to purchase carloads of good milch cows in the Chicago market in recent weeks and some have done so.

Hundreds of farmers scattered all over the corn belt states are in a quandary as to whether corn at ruling high prices is too dear to feed to stock on the farms, and many are inclined to think the best course will be to market the corn and stay out of cattle feeding, regardless of losing the manure and the splendid outlook for prime corn-fed beeves, which are sure to be scarce and extremely dear during the winter and spring months. It, so of course, a peculiar state of things when as high as seventy-five cents a bushel is paid for corn at the end of the crop year of the largest crop of corn on record, yet the best authorities agree that it will pay to fatter cattle of the better class, having hogs to follow the cattle.

A. N. Grady, Washington Co., Ia., say

it will pay to fatten cattle of the better class, having hogs to follow the cattle.

A. N. Grady, Washington Co., Ia., says the high price of corn stands in the way of cattle feeding in that region, sales being made around 60c per bu., and farmers are not going to do much feeding this winter, notwithstanding frequent chances to pick up rare bargains in stockers and feeders after declines in prices in western markets, following liberal receipts. He reports matured hogs well shipped out and a small crop of fall pigs, most of the pigs being born in the spring months. Young hogs are generally healthy and putting on flesh rapidly, feed being abundant.

The dearness of hay is influencing farmers in many localities to sell off their thin horses at low prices rather than carry them through the winter. They take the ground that hay is too high to feed on the farm.

At a recent sale of colts and yearlings at Bloomington, Ill., none of the sucking colts went below \$50. and yearlings sold

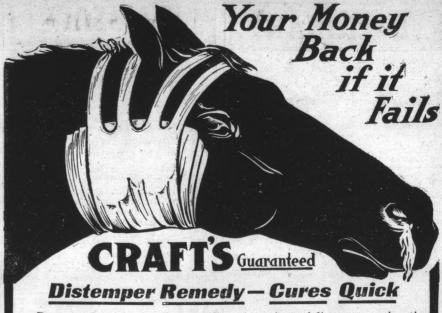
At a recent sale of colts and yearlings at Bloomington, Ill., none of the sucking colts went below \$50, and yearlings sold as high as \$110.

A writer for the Manitoba Free Press says: "Murdo McKenzie, manager of the Matador Cattle Company, is well known in western Canada, where he matures many Texas-bred cattle. He has just been made manager of the San Paulo Cattle Company, of Brazil, an enterprise backed by English and United States capitalists. McKenzie asserts that if Brazilian cattle can be dressed to net \$4 per 6wt, on the hoof at San Paulo his company will have a good margin of profit, and dressed beef can be carried by water from Brazil to New York for less money than by rail over the 1,000 miles separating the Atlantic seaboard from Chicago. McKenzie says they are equal in quality to the best Ontario grassers."

grassers."
Western packers are slaughtering at the rate of 575,000 hogs a week, compared with 385,000 and 475,000 respectively one and two years ago. During the summer packing season that embraced March to October inclusion October inclusive the western packing amounted to 17,450,000 hogs, or 4,435,000 more than a year ago. Stockmen are warned as to the danger

more than a year ago.

Stockmen are warned as to the danger of poisoning stock from feeding frozen beets, by Dr. F. B. Hadley, of the veterinary department of the College of Agriculture of the University of Wisconsin. Last year a considerable loss was sustained by Wisconsin stockmen from this cause. A live stock paper says: "The greatest trouble resulted from beets that were frozen and afterwards thawed before being fed. In one serious case the frozen beets were boiled with grain to make a slop. After this mixture was fed the hogs died in a short time, due to paralysis of the heart. Recent investigations show that the chemical changes that take place in the processes of freezing and thawing produce a poisonous substance which causes rather sudden death when eaten. Beets that have not been frozen make excellent feed for stock."



Don't neglect your horses when they show signs of distemper, epizootic or pink eye. Stop the disease at the start. It is so often fatal and generally leaves its victims wind broken or with some defect. Distemper is a germ disease. Get after the germ and cure your horses, sheep and dogs with Craft's Distemper Cure.

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Friday, December 8th, 1 p. m.

50 High Class Herefords.

For catalog write R. J. Kinzer, Secy.,

Kansas City, Mo.

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

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AYRSHIRES -One of foremost dairy and bull calves for sale. Berkshire swine. Poultry, All pure bred. Michigan School for Deaf. Flint, Mich.

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

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

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HOLSTEIN BULL Calf, sired by best

Butter Boy—56 daughters in Advanced Registry—out of sister to World's Champion bull Sarcastic Lad-She has official record of 22% lbs. butter in f days, and sire's dam a record of over 25 lbs. A barrain at 300. C. D. WOODBURY, Lansing, Michigan.

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

W. B. JONES, Oak Greve, Mich.

Bull Calf for Sale—Throughbred Holstein, best Handsomest in State. Seven-eighths white, a beauty, only \$50. ROUGEMONT FARMS, Detroit, Mich.

St. Lambert Jersey Bull calves and heifers for sale-man, Prop. Hill Haven Jersey Farm, Marcellus, Mich.

FOR SALE-Reg. St. Lambert Jersey, producing stock. O. A. BRISTOL, Fenton, Michigan

Purebred Registered

L. E. CONNELL,

- Fayette, Ohio.

Advice through this department is free to our subscribers. Each communication writer. Initials only will be published. Many queries are answered that apply to case in full; also name and address of should state history and symptoms of the the same aliments. 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.

Scirrhus Cord—Abscess on Knee.—I am puzzled to know what ails a horse that I recently purchased. His scrotum is swollen and pus discharges from each side of sheath; the openings are well back. He also has a suppurating bunch on knee, much like a boil. These sores do not seem to cause much pain. M. S. S., Rapid River, Mich.—When horse was castrated the end of each cord adhered to skin of scrotum and a tumor has grown on end of cord which will have to be cut out. This is a simple operation, but of course it should be done by a veterinarian who has had experience. The abscess on knee should be opened up freely; when drainage is allowed it will soon heal. Apply equal parts powdered alum, oxide of zinc, boric acid and iodoform twice a day.

Bruised Hip.—My horse backed against hay-rack and scraped a large patch of skin off hip; since then he has been quite lame, and sore does not heal as rapidly as I would like to have it. He also lifts opposite leg too high when backing, but shows it very little when going forward. A. C. N., Spring Lake, Mich.—Apply peroxide of hydrogen to wound twice a day; ten minutes after each application apply one part iodoform and ten parts boracic acid. Lameness will subside as soon as wound heals. The jerking of leg indicates stringhalt, an ailment which can often be helped by a surgical operation.

Hidebound.—Three-year-old filly has been out of condition for several months;

tion.

Hidebound.—Three-year-old filly has been out of condition for several months; showed symptoms of distemper during hot weather but now has good appetite; local veterinarian has failed to do her much good. C. V. H., Lucas, Mich.—If filly is running on pasture she should be grained twice a day and salted well. Oats is the best food for her. In addition to this increased food supply she should be stabled at night and well groomed twice a day.

Dats is the best food for her. In addition to this increased food supply she should be stabled at night and well groomed twice a day.

Quittor.—Your advice through Michigan Farmer has been helpful to me many times, but I am puzzled to know what alls my horse's foot. A discharge of pus runs from upper part of quarter and I am unable to heal it. I might say this horse is right in every other way. C. W., Portland, Mich.—Quittor is not easily cured. Fairly good results follow a few applications of tincture iodine; then apply one part bichloride mercury in 100 parts water. If opening is large enough fill it with one part iodoform and six parts boracic acid. The wound should be covered with oakum and a tar bandage applied. It is needless for me to say that diseased quarter should be relieved of pressure from shoe.

Surfeit.—Stallion has a few pimples on him; would like to know if it would be safe to give him Fowler's Solution, and if so, how long it should be kept up; also would it be just as well to give it with a syringe or diluted and mixed with feed? Another horse is out of condition; would you recommend same treatment for him? B. D. B., Woodland, Mich.—Give each a dessertspoonful of Fowler's solution twice a day. I prefer to put it in water and mix with feed; however, it will do no harm to give it alone, but it does irritate the mouth a little. Keep up this treatment for 30 days.

Old Horse Slavers.—Horse 24-years-old does not eat well. I suspected bad teeth and had them filed. This horse slavers some but I suppose it comes from foul pasture. He eats grain ravenously but dislikes hay. A neighbor, who is a horseman, says he needs a good stiff tonic. He has been fed stock food for some time. W. F. J., Mayfield, Mich.—His teeth are doubtless worn short and perhaps some of them have dropped out, making it impossible for him to properly masticate food. Feed ground grain and cut hay; also give him I oz ground gentian at a dose in feed three times a day. I suggest a change of pasture.

Bunch on Stifle.—Colt six months

for past three months and is now quite thin. J. H. G., Sunfield, Mich.—Mix equal parts powdered sulphate iron, gentian, ginger, cinchona, fenugreek and rosm and give horse tablespoonful at a dose in feed three times a day. Are you sure he is fed enough grain? Besides, salt him

well.

Cow Has Spavin.—Ten-year-old cow has what I call spavin; both hocks are diseased. She seems stiff in both hocks and is bothered in getting up. J. A., Bad Axe, Mich.—She will perhaps always be stiff, but much benefit will be derived from applying one part red iodide of mercury in four parts lard to hocks once a week.

Nasal Catarrh.—Eighteen-months-old calf has what we believe to be a case of distemper which causes him to sneeze and cough. A. P., Addison, Mich.—Mix equal parts ginger, gentian, licorice and rosin and give calf two tablespoonfuls at a dose in feed three times a day.

Jersey Bull Calf

Sire, Marston's Interested Prince Has three daughters in Register of Merit with

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

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

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For Sale, Jersey Bull Calf, born Feb. 4, The of Merit cow. Grandsire, Register of Merit bull. WATERMAN, Ann Arbor, Mich. (Successors to Murray-Waterman Ce.)

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Holstein Bulls from 2 to 12 months, grand some of Hengerveid De Kol. King Segis. King Veeman De Kol, and King of the Hengerveids— all from grand old dams. Prices very low, breeding considered. Long Beach Holstein Parm, Augusta, Mich.

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BROOKWATER FARM, ANN ARBOR, MICH., R. F. D. 7 Red Polled Bull Calves 6 to 7 months old, \$40 to \$50. Cows \$50 to \$75. Also Percheron Stallion 3 years old, fine style, a big bargain at \$250. E. BRACKETT & SON, Allegan, Mich

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

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

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

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

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

Special Prices on 25 RAMPOUILLET Breeding gistered. IRA B. BALDWIN, Hastings, Mich. Rambouillet Rams-Good ones at farmers' prices. Also ewes and ewe lambs. A. E. GREEN, Orchard Lake, Mich. Bell phone.

Reg. Rambouillets Wish to close out both sexes. All ages, low price. Farm—234 miles E. Morrice, on G. T. R. R. and M. U. R. J. Q. A. COOK.

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MAPLE RIDGE SHROPSHIRES—Forsale the imp.
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sired by this noted ram. H. Stewart, Lennon, Mich.

Registered bulls from four to ten months old for sale that are closely related to Hengerveld De Kol. De Kols 2nd Butter Boy 3rd, and Colantha 4th's Johanna. The dams are heavy milkers and mostly in the A. R. O. Prices reasonable. Send for list. Bigolow's Holstoin Farm, Breedsville, Mich. Flockheaders—Choice yearling Shropshire rams for sale; also yearling and aged ewes. JONES & MORRISH, Flushing, Michigan,

SHROPSHIRE registered ram lambs \$12 each.
Also a few O. I. C. Boars for sale.
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E. E. LELAND & SON, Route No. 9, Ann Arbor, Mich. Shropshire Bargains:

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CHROPSHIRE yearling Rams and O. I. C. Spring Boars & Sows. One yearling Boar. Shrophire ewe lambs later. E. E. BEACH & SON, Brighton, Mich. Shropshires at farmers' prices. Have a fine bunch of breeding ewes. HARRY POTTER, Davison, Mich. Polled Delaine Rams for Sale.
F. L. BROKAW, Eagle, Michigan.

BERKSHIRES—Boars at special prices for 30 days
Also Leicester rams, from priz
winning stock. Eimhurst Stock Farm, Almont, Mich

FOR SALE, BERKSHIRES—2 boars & 3 gitts farsowed in June also a choice lot of Aug. and Sept. pigs, street by Handsome Prince 34 & Marion King. A. A. PATTULLO, Deckerville, Mich.

Berkshires Sows bred for fall farrow. Boar pigs for fall service. Quality and breeding first-class. Pricesfreasonable. C. C. Corey, New Haven, Mich.

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

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

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

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

O. I. C's For Sale—Best quality, large growthy type, either sex, pairs not akin, some fine bred gilts, choice lot of fall pigs all ages. OTTO B. SCHULZE, Nashville, Michigan.

O. I. C.'s—Boars all sold. Choice young sows weigh-ing 180, also 60 Aug. & Sept. pigs, either sex, pairs no akin. Order early. Fred Nickel, Monroe, Mich., R.1.

OUR Imp. Chester Whites and Tamworth swine won 25 lst at Fairs in 1911. Service boars, also sows bred for spring farrow of either bred that will please you in quality and price, Adams Bros.. Litchfield, Mich.

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

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

Duroc Jerseys FORSALE—A few spring boars of good breeding. Write for prices. J. A. MITTEER, Stockbridge, Michigan.

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

30 High Class Boars ready for service. Special of growth, style and finish. Satisfaction guaranteed. Come or write. J. C. BARNEY, Coldwater, Mich.

FOR SALE—DUROC-JERSEY bred sows, pigs and Shepherd Pups. Express prepaid. J. H. BANGHART, Lansing, Mich.

DUROC-JERSEYS-25 fine spring gilts, popular blood lines. Good individuals; 10 fine boars, 5 bred sows due to farrow soon. JOHN McNICOL, R. No. 1, North Star, Mich.

BIG POLAND CHINAS.

We have several spring boars that are ready for service now from our two
Large Boars Big Tom and Big Wonder. The dams of these boars we are offering were from Happy Wilkes, a 1000-lb hog and Jim Perfection an 800-lb. hog. We also have several females. Write us your wants;

we will sell them at farmers prices.

ALLEN BROS., Paw Paw, Mich.

LARGE TYPE P. C.—Largest in Michigan. Pigs sows. Weigh 160 to 175 lbs, at 4 months. My mottor—"Not how cheap but how good." Will pay expenses of those who come and do not find what I advertise. W. E. LIVINGSTON, Parma, Mich.

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

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

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

POLAND CHINAS; Home of Michigan's Grand Champion

Boar; large, growthy spring boars and gills by this great
size; they're priced right E. J. MATHEWSON, Nottawa, Mich.

Poland Chinas Extra good spring and fall pigs either sex

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

P. C. BOARS ready for service, heavy boned large type, Prices right, H. H. Comrad, successor to L. F. Courad & Son., R. No. 4, Lausing, Michigan. P. C. Boars and Fall Pigs of the right type, Also S. C. B. Mi-

orca fowls. Northrup and Canada stock. Satistion guaranteed. R. W. MILLS, Saline, Mich. Poland Chinas—Bred from large type. Stoel all ages, both sexes, at Farmer prices. W. J. HAGELSHAW, Augusta, Michigan

Poland Chinas Special sale on 1 yearling both seres. R. J. LANE, Clare, Michigan.

Big Type P. C. Boars and Sows Expan-

Three Extra Good Fall P. C. Boars

By Next In Line. 32 spring male pigs ready to ship. I ship C. O. D. and furnish pedigree promptly. If you want good as the best, write me for prices. WM. WAFFLE, Coldwater, Michigan.

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

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

Lillie Farmstead Yorkshires.

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

Large Improved Yorkshires 5 boars for sale. Far-rowed July 11. Price reasonable. Address W. H. Parker, Grand Blanc, Mich.

437

CRATE FEEDING OF CHICKENS FOR MARKET.

I have been fattening chickens for ing it both difficult and expensive to bring them up to my ideal of what a No. 1 market fowl should be, I finally decided to try crate feeding. It has proved a success with me and I have satisfied myself that the selling of lean chickens

I had some fattening crates made which are 36 in. square and 18 in. high. Each crate is divided into four compartments, each compartment holding five The crates are made of slats, except that the partitions between the compartments are of thin boards placed tightly together so that the fowls cannot see each other. The slats on top and I used common laths for slats, placing them two inches apart to allow the chickens to put their heads through for securing food and drink. The slats 'ine coal tar solution is excellent to inon the bottom are placed one inch apart. ject as it dries up the discharge. Inere is a small door in the top, fastened are put into and taken out of the crate. There is a small V-shaped trough extending the full length of each of the four sides of the crate; two of these are used for water and the other two for feed.

I keep fresh water constantly before the fowls. The first week I feed cooked food, boiling small potatoes, mangles, and mashing them with finely ground cornmeal and oatmeal to equal it has cooled a little I thin it with skimmilk until it pours out like a batter. This than the fowls will clean up in ten min-I give, three times a day, equal parts of oatmeal and white cornmeal finely ground and mixed with skim-milk. Add to this a pound of clean melted tallittle stiffer for morning and evening the above article.-Ed.) feeding. I give them all they will eat up clean; if any remains I take it away, as care must be exercised about overfeed-I find that if I get them off their right again.

The fowls are given gravel every four made the most profitable gains for me, sales. making gains of from 30 to 35 per cent in sulphur before placing them in the crate. Also locate the crates where they will not encounter drafts.

I feel that I owe my success to careful my methods and experience will be of some benefit to others.

MRS. A. D. PITCHER. Wayne Co.

ROUPY FOWLS.

eases somewhat similar to roup which for canning fruit. of which are sometimes mistaken for While at first this may seem to be and snuffle while on the roost at night, water. In a short time the honey will all put about a tablespoonful of coal oil in melt and will not granulate again for a when drinking. Spirits of camphor ad- you can bear your hand in-as overheat-

hand than can be properly housed. The place; dampness often causes it to sour. fowls crowd together on the roost until New Jersey.

they become overheated; on leaving the roosts in the morning they rush out into the cold and become chilled. Therefore have sufficient roosting room so they won't be crowded on the perches.

I have successfully treated some very severe cases of roup and as yet have not lost a fowl. A few of the hens had swollen heads, both eyes swollen shut market for some considerable time. Find- and feverish, sticky discharge from nostrils and eyes, and a cheesy growth or "false membrane" in the mouth. On opening the eyes, morning and night, the sticky discharge was pressed out. times cheesy matter was removed from the eyes with a straw. After getting out is a wasteful practice, to say the least. all the matter possible I injected into the eyes.. nostrils and throat a solution made from one of the well known coal tar preparations, using one part to two parts water. A small oil can was used for injecting it. I found that the fowls would not drink water to which the coal tar preparation had been added, therefore I injected it and put permanganate of potash into the drinking water; just enough bottom run lengthwise of the coop, while is dropped into the water to give it a those on sides and ends run up and good pink color. Permanganate of potash is a strong disinfectant but is not poisonous; as there is no smell to it the fowls will readily take it with the water.

One must exercise patience in treating with a button, through which the fowls roupy fowls as they cannot be completely cured in a few days' time. While some improvement can usually be noticed after a few days creatment a complete cure cannot be effected in less than ten days or two .seks. The principal thing in treating roup is to keep the eyes and nostrils open so that the discharge can se removed and dried up.

Fowls cured of roup must not be used as breeders, however well they look. They will do for market, or for market eggs. parts. This makes a thick mash. When but never breed from them as they will transmit the disease to their offspring. The cured fowls should be marked so I feed twice a day, never more at a time that they can be easily distinguished when selecting the breeding stock.

O. E. HACHMAN. Indiana. (The attention of Macomb County Subscriber, and of others who have recently sent inquiries which indicate that they low for every 50 fowls. I make the noon have roup in their flocks, is directed to meal quite sloppy but have the mash a the suggestions and experience given in

MARKETING EXTRACTED HONEY.

I have always rather favored the idea feed it is difficult to get them started of the producer putting his name and address upon each section of honey that he placed upon the market. It will addays, also all the prepared charcoal they vertise his honey and some consumers will eat. Chickens weighing from 2 to will send to him direct for their supply, 21/2 lbs. when put into the crate have thus enabling him to make many more

When commencing to put extracted 12 days. All fowls should be dusted with honey on the market the best style or kind of package was with me a matter of much perplexity. After trying many and various kinds I finally decided that glass fruit jars, in their various sizes, feeding, rather than to hard work. I were, all things considered, about the have not lost a single fowl in a feeding most satisfactory packages that could be I trust that this general idea of obtained here for the retail trade. The glass itself, barring accidents, lasts an indefinite length of time. or covers are made of zinc they do not rust and if they become discolored or ONE MAN'S SUCCESS IN TREATING old-looking there are a number of preparations with which they can be very quickly and easily cleaned so that they Colds and roups are prevalent at this look as bright as when new. On this time of year and extra precautions must account these jars, after being emptied, be taken lest the entire flock become in- represent, or are worth, about as much fected. By poultry owners who have had money as when new, something that can experience in the treating of fowls in- hardly be said in favor of any other refected with roup the disease is readily tail package with which I am acquaint-diagnosed, as there is no mistaking the ed. Usually even the most thrifty of "roupy smell," the swollen head and housewives will hardly object to the cost eyes and the sticky discharge from eyes of the jars, owing to the almost universal and nostrils. There are, however, dis- use that is made of them by all classes

in reality are not roup, such as catarrh, Extracted honey will granulate or bediphtheretic roup and ordinary colds, all come white and hard in cold weather. genuine roup, but can easily be dis- detriment, it is not, for it can be reduced tinguished by the smell. Colds, if taken to its liquid form again by simply heatin time, can easily be checked by the use ing it. Place the can or dish containing of simple remedies. If the fowls sneeze the honey you wish liquefied in warm the drinking water. The oil will remain long time. But be sure that the water on top and they will treat themselves does not get too hot-not hotter than ded to the drinking water is also bene- ing the honey spoils the flavor and darkens it. I try to have all my honey in the Roup can usually be traced to damp liquid form when sold, but it may granquarters, drafts in the poultry house and ulate in time, and this is good, in fact overcrowding. The last named is, in my the best, proof of its purity. Some prefer opinion, one of the principal causes. In it in its candied or granulated form. the fall one usually has more stock on Honey should be kept in a warm, dry

F. G. HERMAN.

"Thirty-six" Touring Car
5-passenger, \$1800

Long stroke motor, Chalmers self-starter,
four forward speeds, Bosch dual ignition, Solar gas lamps and Prest-O-Lite
tank, ventilated fore-doors, 36x4-inch
tires, Continental demountable rims.

This New, Big, Self-starting Chalmers "Thirty-six"-\$1800

HINK of a new highpowered Chalmers car with a Self-starter as regular equipment - for \$1800! No more cranking, no more bother. Just push a but-ton on the dash with your foot, and away goes your motor.

That isn't all. This car has a long stroke motor (4¼ x 5¼ , developing 36 to 40 h. p.); four forward speed transmission; Bosch dual ignition; 36" x 4" tires; Continental Demountable rims; Mercedes type honeycomb radiator; dash adjustment for carburetor.

Furthermore, this car has bigness, strength, proved durability, beauty, fine finish, comfort.

And the price, including all these unusual features of value is \$1800.

A man at the circus for the first time, viewed in amazement the giraffe. After looking the animal over for some time and inquiring if it had a name he turned away saying, "There ain't no such animal."

Many motorists, hearing of the Chalmers "Thirtysix" for the first time, then learning the price, have felt much the same way.

But they are wrong. There really is such a car as the "Thirty-six," with the features named above-for \$1800.

You can see this car now at our dealer's store near you. It will look better to you there than in this advertisement. See it. Ride in it.

No car can be more serviceable to the farmer than the new Chal-mers "Thirty-six." It is a car that will compare, point by point, with the most expensive car made, and yet is sold at such a price that it will pay its way in the every day work on any good sized farm.

The famous Chalmers "30" and Chalmers "Forty" also offer unusual values. The "30" sells at \$1500 and the "Forty" at \$2750. Both fully equipped at these prices.

The Chalmers Company realizes that there is no better field for

the sale of cars of the Chalmers class, than right on the farm.

We want your patronage Let us get acquainted. A postal will bring you our catalog and an introduction to our dealer nearest you.

Chalmers Motor Company, Detroit, Mich.





This No. 6 triple geared, double active may sweep mill has more capacity and will do better work than any other two-horse mill; it

TURNS CORN
TO DOLLARS
Avoid waste, and make big profits by grinding your feed with one of our mills. We make power mills also for engines of any size, send for free catalog, send for free catalog. THE BAUER BROS. CO., Box 409 SPRINGFIELD, OHIQ

Good Money in Poultry and Eggs. Send 10 Cents for 3 issues of POULTRY BREEDER; 25 cents a year. For 21 years the BREEDER editor has made affeck of 150 pay him \$600 to \$900 per year.

GEO. S. BARNES, BATTLE CREEK, MICH.

WE BUY FEATHERS! Goose, Duck and Turkey Quills. R. H. SCHIRMER & CO., Saginaw, Mich.

M AMMOTH Bronze Turkeys—Large vigorous birds, May hatch. Toms, \$5; hens, \$4. SilverWyandottes, cock'ls \$1.50. E.[H. & J. A. Collar, Coopersville, Mich.

FOR SALE-Fancy R. C. Rhode Is, good laying breed. E. S. HIGBEE, Wayland, Mich.

FISHEL STRAIN White Plymouth Rock cockerels Special sale during Nov. Price \$1 & \$2. Guaranteed to please. Bruce W. Brown, R. No, 3, Mayville, Mich.

WHEN you buy Blue Belle Baired Rocks, you buy the best, in barring, sturdiness, and egg-production. Cockerels \$1. to \$5. Lake Ridge Farm, Levering Mich.

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

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

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

SILVER, Golden and White Wyandottes of quality, young stock after November 1st. Fine circular free. A few white roosters. C. W. Browning, Portland, Mich.

WHITE WYANDOTTES—Useful and beautiful. The kind that weighs, lays and pays. A. FRANKLIN SMITH, Ann Arbor, Mich

DOGS.

TRAINED running Fox Hounds, and some partly trained rabbit dogs, and Shetland Ponies. Ferrets wanted. Send stamp. W. E. LECKY, Holmesville, O.

For Sale, Collies—Extra fine brood matrons, bred. Also pupples. W. J. ROSS, Rochester, Mich.

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



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the Trinidad-Lake-Asphalt Roofing

What is the first and greatest thing to expect of a roof?

Stay waterproof.

Trinidad Lake asphalt is Nature's everlasting waterproofer; and that is what Genasco Roofing is made of. It gives lasting protection.

The Kant-leak Kleet keeps roof-seams watertight without cement, and prevents nail-leaks. Gives an attractive finish.

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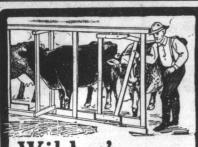
The Barber Asphalt **Paving Company**

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Wilder's

Stanchion

Your cattle will repay many times the expense incurred in making 'em comfortable and keeping 'em clean. Our Stanchion Catalogue will tell you how to do it, will prove to you conclusively that Wilder Stanchions are the best; will tell you all about the only Stanchion that is opened and closed without removing mittens. When open they can not swing but are held rigid for animal to enterclosed they swing freely. Only smooth, polished hardwood touches the animal — no slivers—no splinters—ano rust—no racket. Blind botted at joints—always tight there. They will hold anything from the strongest, unruly bull to the meeks 'runt' in the herd—will hold them clean and comfortable. Save your time, temper and feed by installing Wilder Stanchions. Made from selected hardwood and in either ''Pin' or 'Chain' style. ''Prices Right.'' ''Ask for our catalogue,''

WILDER-STRONG IMPLT. CO. MONROE, MICH.

CREAM SEPARATORS

not only save their cost every year but may be bought on such liberal terms as to literally pay for themselves. Why should you delay the purchase of the best separator under such circumstances?

THE DE LAVAL SEPARATOR CO

29 E. MADISON ST CHICAGO.

CONDUCTED BY COLON C. LILLIE.

ADDRESS BY PRESIDENT TAFT AT NATIONAL DAIRY SHOW.

ADIES AND GENTLEMEN:-This dairy show and convention is only a part of a movement in this country that has been brought about by a consciousness that the food problem in the United States may, in the somewhat near future, become a serious one.

We have been in the habit of thinking that we had so much land and such good land that there never could come a time when we would have more people to feed than we could feed. But the last census statistics indicate otherwise. The farming lands, the total acreage in the last ten years has increased only four per cent; the improved acreage only 15 per cent; while the population has increased 21 per cent.

In the last decade, the productivity of the acre has increased one per cent a year. And thus far we are keeping up, the productivity of an acre is a hard thing to continue to increase at the same rate.

We are near the limit of our acreage. Perhaps not more than 150,000,000 acres more are capable of tillage in this country either by irrigation, reclamation or drainage.

The consequence is that in order to increase our food supply to meet the growth of the population, which in fifty years is likely to be two hundred millions, we are obliged to resort to those methods that involve greater attention, greater industry, and greater scientific knowledge than are used in the opening of a country that seems so rich that all you have to do is to tickle it with a hoe to make it smile.

their movement becomes more important. those branches of the agricultural industry that depend for their success on constant manual attention and close development of the dairy interests.

ing, and the methods of feeding and the dlings, cottonseed meal.

authority in this matter, except through day. which justifies it in expending the peoto how cattle ought to be treated and of the milk which the cow gives. how the dairy business ought to be car-

duced 476 pounds of butter in one year. perhaps eleven hundred.

ing; she ought to be here.

pounds.

extreme is so great. There is room for the carrots and mangels. an improvement in breeding and an improvement in feeding and an improvement in all the methods properly usable to increase the supply of milk and butter. I am glad to be here to give, far as I may, while the titular head of the government, the approval of the administration to any enterprise like this of a national character, that tends to

until I went to the tropics that one of the reasons why the dreadful destruction of infants that occurs in those regions is so great, is the fact that they have not any milk with which to feed the infants-any cow's milk. It is not impossible that they should have because after I went to the Philippines I imported a cow and kept it all the time I was there. and I do not see any reason why they might not have in the tropics that source of milk to promote the cause of health Perhaps this is reaching a little toward an ideal more ambitious than this national dairy show need be. But the importance of the production of healthy milk, and its generous supply impressed itself more on me when I had some experience in its absence, than it would if I had always had the benefit of drinking good milk and eating good butter.

I hope for this association and enter-prise the greatest good fortune. I hope for the prizes that are offered here a stirring up among the professional men engaged in this work, that spirit of investigation and education which will promote the cause of this branch of agriculture everywhere. And I look forward with confidence to a development in this work which we may expect, a branch which by education, industry, enterprise and science can be made more profitable and at the same time most useful to the general public. I thank you for your kind attention.

BALANCED RATION WITH CORN-MEAL, WHEAT BRAN, MIDDLINGS AND ENSILAGE.

Can I make a balanced ration of bran, middlings and corn meal, and how many pounds of each would you feed a cow giving 12 pounds of milk at a milking? Also, have carrots, mangels and ensilage to feed her, or would I get better results by substituting seed meal in place of the middlings. middlings.
Schoolcraft Co.

In order to make a balanced ration with these foods you would have to use so As the question of food products and much wheat bran that it would make the ration cost too much and you would also feed too much grain in proportion to the bulky part of the ration. I would suggest that you leave out wheat middlings scientific study become more important, entirely, they add nothing particularly to And that, I think, is the reason for the the balancing of the ration because they are no richer in protein than bran and That is the reason why it is so im- they are now as good a cow feed, and I portant to study the question of breed- would substitute in the place of the mid-Then if you mechanical appliances for the purpose of will mix bran, corn meal and cottonseed making easier and more certain the meal equal parts by weight you will have cleanliness of the production of the milk a grain ration which will balance up the and the manufacture of butter and corn silage very nicely. A cow giving 12 pounds of milk needs in the neighbor-The federal government has no direct hood of 1% to 2 pounds of protein per Now, two pounds of cottonseed interstate commerce and the pure food meal, two pounds of wheat bran and But it has that general interest two pounds of corn meal will furnish 1.24 pounds, and 40 pounds of corn silage will ple's money under the welfare clause furnish .36 pounds, making a total of 1.60 for the purpose of promoting all branches pounds of digestible protein in the raof agriculture. And through the Depart- tion and I think this will be all that you ment of Agriculture it is doing so. And can afford to feed a cow that gives only under the bureau of animal industry, it 12 pounds of milk at a milking or 24 is promoting, as far as it may, the knowl- pounds of milk per day. Of course, it edge of the dairy farmers with reference will depend considerably upon the quality gives five per cent milk it would be different than if she gave three per cent, I believe that in Massachusetts as far and I would suggest that you quit figurback as 1816 there was a cow that pro- ing on the number of pounds of milk which the cow gives but figure on the And now there are cows that can produce pounds of butter-fat which she produces more than a thousand pounds of butter Rich milk produces more butter-fat and it takes more feed to produce rich milk Since I acquired one of the noted cows, than it does to produce ordinary milk. I am looking into the statistics, and I would also suggest that you feed some want to apologize for the failure of her form of dry roughage food in connection oyal highness to be present this morn- with the corn silage. I don't like to have all of the roughage a succulent food. You But in spite of those high figures, I ought to have some kind of hay, and understand the average production of a clover hay would be best. Corn stover milk cow is something less than 150 would be better than nothing, and even oat straw fed in connection to furnish Now certainly there is great room for a dry food in the ration would be better improvement in that regard, when the than to feed none at all. It would also difference between the average and the be a splendid thing to feed her some of

BUTTER MARKET NOTES.

The government is active in a campaign looking toward the detection of dealers who are selling butter with an excess of moisture. Much of it has been found and many men are being asked to pay the annual tax for handling butter having more than 16 per cent of water.

of a national character, that tends to promote in the spirit of competition and a proper emulation, the importance of this great branch of agriculture, and the helping along of the people by the increase in the supply of healthy milk, butter and cheese.

I do not suppose that it has any particular relevancy, but I did not know that tends to promote in the supply of healthy milk, butter and cheese.

I do not suppose that it has any particular relevancy, but I did not know the date of the promote in the supply of healthy milk, butter and cheese.

I do not suppose that it has any particular relevancy, but I did not know the date of the promote in the supply and the promote in the supply and the supply are along the promote in the supply and the promote in the supply and the promote in the supply and the importance of those of former years, considering the natural increase in the number of dairy cows kept. There is every promise that butter prices will rule high this winter. The average receipts are about on a par with those of former years, considering the natural increase in the number of dairy cows kept. There is a lively demand especially for the better grades of creamery which are selling at a premium. The other grades are not without attention, but inquirers are less urgent than are those of former years, considering the number of dairy cows kept. There is every promise than to the process will rule high this winter. The average receipts are about on a par with those of former years, considering the number of dairy considering the process will rule high this winter. The average receipts are about on a par with those of former years, considering the number of dairy considering the process will rule high this winter. The average receipts are about on a par with those of former years, considering the number of dairy considering the process will rule high this winter. The average receipts are about on a par with those of former years, considering the number of dairy considering the process will rule high this win





Bluffton, Indiana, October 14, 1911.

I purchased a Tubular. Many of other makes, in this county, are being replaced by Tubulars. People know a good thing when they see it.

Harry Ulmer,
Clearwater, Minn., Oct. 14, 1911.
Had been using a No. 2 disk
machine but find a No. 4 Tubular
turns no harder though skimming twice as fast. Get more
cream, of equal test, from same
weight of milk with the
Tubular. I. G. Humphries.
These two letters were written to These two letters were written to us the same day, which shows how many like them we receive. No disks in Dairy Tubulars. Double skim ming for ce. Skim ming for ce. Skim catalog 152.

THE SHARPLES SEPARATOR CO.
WEST CHESTER, PA.
hicago, Ill., San Francisco, Cal., Portland, Ore
Toronto, Can. Winnipeg, Can.



Hay \$24 per ton. Dried Beet Pulp \$24 per ton less

Feed one pound Beet Pulp in place of two pounds of hay. That is cut down the hay two pounds and increase the pulp one pound

Save over one cent per day on each animal.

How do I know? Because I tried it one winter when short of hay. It works all right. If anything the cows did better. Don't stay in a rut. Thousands of live dairymen and feeders are using Dried Beet Pulp

Try it. You can't lose but you will undoubtedly profit thereby.

Ask your dealer. If he does not keep it write to T. F. MARSTON, Sales Agent for the Sugar Co. Box D, Bay City, Mich.

THE SPEEDO SANITARY CHURN FACTORY TO CONSUMER \$4.50.



express paid. Most butter, best quality, best butter gatherer. Easy, quick, clean, cheap. Churn in stone jar. Made adjustable, four sizes in one; same price. Dairy thermometer free. Write OHIO SPEEDO CHURN CO. 406 Capitol Trust Bldg., Columbus, O.

A METHOD OF IMPROVING THE DAIRY.

Through the medium of publicity of dairy conditions and payment for milk on a basis of quality, it was possible in the course of four years to completely change the character of the dairies supplying milk for the city of Geneva, N Consumers are being instructed by physicians, boards of health, the press and otherwise, of the value of sanitary milk and the danger of that which is unsanitary. Knowing this, the factor of publicity becomes a key that opens the door for the correction of many of the evils connected with the supplying of pure milk. However, the correction is limited by the amount which the consumer stands ready to pay for the pro-

In the above case quarterly inspections were made of each of the dairies spplying milk to the city. At each inspection a score was made of the sanitary conditions under which the milk was being produced and a copy of this score was furnished to the producer and to the dealers who made it a basis of payment under their contract. The scores of the different producers were also published, with the names of the retailers to whom they sold their products, that the public might know exactly from whom they were purchasing their milk and under what conditions it was produced.

It became necessary to reduce these scores to a numerical basis that comparisons might be made between the different dairies as well as between the different scorings of the same dairies. The dairies were classified as follows: A 'poor" dairy was one where filthy conditions were present; a "medium" dairy where conditions were merely dirty; a 'good" dairy was one where the conditions were fairly clean; and an "exceldairy, was a dairy where conditions were both clean and sanitary. At the beginning of the work it was believed, and there is every reason for that belief, that the dairies supplying the milk to this city was as good as the average dairies supplying milk to other cities.

The first inspection, which was very carefully made, showed 37½ per cent of the dairies to be classified as "poor," 571/2 per cent in the "medium" while only five per cent could be called "good."

At the end of one year the score cards ranked the different dairies as follows: 2:9 per cent was "excellent;" 82.8 cent as "good;" and 8.1 per cent of the "medium" class.

At the end of the second year the score card showed 8.6 per cent of the dairy grading as "excellent;" 82.8 per cent as "good;" and 8.1 per cent of the "mediclass.

At the end of the third year the score cards showed 12.8 per cent of the dairies to be "excellent;" 74.4 per cent to be "good;" and 12.8 per cent to be of the "medium" class.

Fifteen months later, or at the end of the first quarter of the fourth year the same method classified 12.8 per cent of dairies as "excellent," and 87.2 per cent as "good." None of the farms producing milk at this time were found to grade in the "medium" or "poor" class.

It will be seen from these figures that the policy of inspection, the results of which were made known to the consumers, provided a valuable means of securing a desirable quality of milk. However, it was observed that when there appeared a disinclination on the part of the consumer to pay a reasonable amount for the attending expense of producing the better milk, there the improvement stopped, since the dairymen could not be persuaded to go to a greater expense than their receipts will allow, which, of course, is a rational attitude.

DAIRY NOTES.

W. W. Marsh pointed out that a wagon load of grain that sells for \$16 to \$20 will take as much nutriment from the soil as a car load of butter, and the butter is worth \$6,000.

Dairy products are now bringing unusually high prices, being above the values usually seen at this time of the year. The production is scarcely keeping pace with the requirements of the market, the rapidly growing population of the United States calling for increased supplies, and stocks in cold storage are much smaller than a year ago. Butter is going to be dear the coming winter. The best creamery butter is wholesaling for 31 cents a pound in the Chicago market, and cheese is also up in price, "Americans" going for 15 cents a pound.

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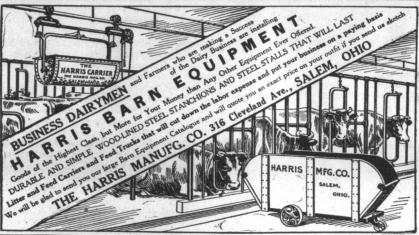
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The Michigan Farmer

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The Lawrence Publishing Co.,

Detroit, Mich.

DETROIT, NOV 18, 1911.

CURRENT COMMENT.

The present estimate Michigan's Sugar on the in Michigan as com-

fall is likely to decrease the percentage of sugar in the beets and may interfere tonnage to some extent, possibly enough counterbalance the other factors noted.

With this increased acreage in beets, in the public press. Michigan will make a close race for first United States, Colorado and California behind in the race. Most dependable estimates indicate that Michigan will proyear. The high price of sugar will make a similar manner. it a profitable season indeed for the sugar factories, which have been uniformly prosperous during recent years, and, although the crop has proven a profitable one to Michigan farmers under present price conditions, the season may be a favorable one for securing the price advance which was demanded before the business reaction of last year and which, it would appear, sugar factories could well afford to pay, as indeed one of them is now paying practically the price demanded by the farmers who inaugurated the movement last year which was not carried to a final issue.

Implement Dealers Oppose Parcels Post.

last week,

in the possibility of inaugurating a parlaw that has yet been proposed.

en, since it will help to awaken the farmers of the state who are in favor of an desirable. adequate parcels post law, to the necesmatter if they would influence the Michigan delegation in congress to favor such a law. If every reader of the Michigan Farmer who is in favor of the enactment of a parcels post law, would take the time and trouble to write his member of congress and the United States senators from Michigan, touching his views upon this question, there is little doubt that the Michigan delegation would favor the enactment of a liberal parcels post law. However, if a representative contingent of business men oppose the measure and the people themselves do not voice their interest in it, they will have none to blame but themselves if the Michigan delegation is not active in the support of such a measure at the coming session of congress. A word to the wise is sufficient.

way and Sweden,

through their diplomatic representatives, have requested the United States to grant to them, under the favored nation clause of their treaty with this country, the same privileges given to Canada by Section 2 of the reciprocity agreement, by which wood pulp and print paper are admitted free of duty from that country into the United States. It is also said that several other countries, including Germany, are believed to have asked the same privilege of the United States.

This little echo from the reciprocity campaign brings up a point which was advanced by some opponents of the Canadian pact, that it would open up a possible avenue of difficulty with other nations due to the favored nation clause, so-called, which is written into practically all of the commercial treaties of the United States with other countries. But the most interesting point about this latest echo regarding the reciprocity bill, is the fact that the newspaper interests behind it, seeking free pulp and free paper, were not obliged to take any chances the final ratification of the pact by both countries.

It will be remembered that the portion increased of the bill referring to the paper schedule, acreage of sugar beets as it was passed by our congress and signed by our President, was incorporated pared with last year gives us an area of by itself in Section 2 and did not depend about 20 per cent more than one year upon the reciprocal action of Canada to The unfavorable weather of the late make it effective. Hence, when the bill was passed by congress and signed by the President, the paper schedule, so far with harvesting a portion of the crop. as Canada was concerned, was revised However, the late rains increased the and print paper and pulp have been com-

place as a beet-producing state this year. conserve our supply of pulp wood by Three years ago it took third rank in the such means, although it would not appear being ahead in tonnage. Last year it for it by this cleverly manipulated methwas next to California, Colorado dropping od, which is brought forcefully to public duce close to 135,000 tons of sugar this favored nation clause of their treaties in

which, matter of fact, however, there is probably no state in the Union which has made a better start in the teaching of agriculture in the public schools, than has Michigan. For several years a destant of agricultural education has been maintained in our agricultural college in charge of an ex-deputy superinansing tendent of public instruction, who has the had a wide experience in school work the had a wide experience in school work will as a good working knowledge of our public schools, as getting the kind of agricultural instruction which in have this work, the first move being the placities of high schools of the state with a view of affording an opportunity for agricultural part of the state and solve a part of the state and solve and part of the state with a view of affording an opportunity for agricultural education as one of the company to the state with a view of affording an opportunity for agricultural education as one of the same and several excitations. He retained his interest in agricultural affairs until the agricultural agricultural affairs until the state and who has a deep burshes a horse for his farm at the same a horse breeder, which was a good working knowledge of our public schools, as getting the placting the placting that a hat the same and solve and part of the state with a view of the state with a view of affording an opportunity for agricultural education of from foreign functions. He retained his degree.

Mr. Colman received many honorary degrees and decorations from foreign from foreign functions. He retained his interest in agricultural associations. He retained his interest in agricultural agricul At a meeting lege in charge of an ex-deputy superin- last, being en route on a railway train held in Lansing tendent of public instruction, who has to a distant point where he expected to Michigan Retail in the state and who has a deep time of his death. He had an extended Implement and Vehicle Dealers' Associa- knowledge of our public schools, as experience as a horse breeder, which tion adopted resolutions advocating the well as a good working knowledge of caused his selection as one of the comappointment by congress of a non-par- the kind of agricultural instruction which missioners to head the government horse tisan commission to investigate the ques- can best be inaugurated in those schools. tion of parcels post, legislation to be de- Michigan has begun at the bottom in the establishment of a breed of American ferred until such commission shall have this work, the first move being the plac- trotting carriage horses. The develophad ample time to act and report. It is ing of agricultural courses in a number ment of a national department of agridifficult to see why an association of this of high schools of the state with a view culture, the founding of which was the kind should take such an active interest of affording an opportunity for agricul- culmination of Mr. Colman's personal amcels post, since farm implements and schools-a large proportion of whom are onstrate the foresight of this pioneer in vehicles would hardly be transported farm boys and girls-and at the same agricultural educational work, while the mocracy. through the mails under any parcels post time provide teachers who will be equip- invaluable accomplishments of the many A vehicles would hardly be transported farm boys and girls—and at the same astronation of the mails under any parcels post time provide teachers who will be equip-invaluable accomplishments of the many An organization has been consumated for the purpose of promoting the adoption of the proposed arbitrary treaties between It is, however, perhaps fortunate rather the teaching of agriculture in the pri-tablished under the Hatch law, constitute the United States and England and

than otherwise, that this action was tak- mary schools of the state at such time an imperishable monument to as that may be considered expedient or

THE LAWRENCE PUBLISHING CO. sity of taking some personal action in the seem to promise more for the future of our agriculture than the betterment of our common schools in this manner, and the greater the improvement in our common schools, the higher will be the class Its Effect Upon the Community, the of citizenship which they will produce in the future generations of our people. But there are peculiar advantages in the ings of man, and believe that all who teaching of the elements of scientific ag- come in contact with it cannot but feel riculture in the common schools which they have something to live for that is will amply repay the cost of inaugurating such instruction in them.

With the view of bringing this point out more strongly than would otherwise be possible, the publishers of the Michigan Farmer aim to give the opinions of practical farmers, located in the several sections of the state where agricultural are now maintained in high schools, regarding the benefits derived Would Apply Favored Nation Clause.

A recent dispatch boys and girls themselves, from this invation. The first of these letters apstates that Nor- pears in this issue being the communities, as well as by the boys and girls themselves, from this invation. by the communities, as well as by the a practical Otsego county farmer upon been and are of untold benefits to our the opinions of other farmers who live a credit to themselves and all mankind. in close proximity to these schools in The boy who has a chance to learn the which agricultural courses have been scientific principles of up-to-date farmstarted, to the end that the true senti- ing, how to maintain fertility of the soil ment regarding such schools held by the and make a success, will be a guiding farmer taxpayers who are helping to star to many others through the wholesupport them may be presented to our some power of example. readers, thereby bringing this proposiknowledge and opinions gained may be of is, we are in need of better farmersquestion in the reader's locality.

> During the of Agriculture. the

n J. Colman was flashed over Hon. No the land. ir. Colman's demise removed been influential in the upbuilding of and well contented. We also have four American agriculture. Mr. Colman was girls that can give us help at many born in Otsego county, New York, in 1827. A lawyer by profession, he practiced in Albany, Ind., from 1850 to 1852 inclu- money is well spent in teaching agriculsive, during which latter year he removed to Missouri. Soon after locating in St. Louis, Mo., he established an agricultural journal which is still in existence, which entitles him to be classed as the dean of agricultural editors in his state, if not in the country.

He was the recipient of many local honors in his own state and was appointed in 1885 by President Cleveland as Canada was concerned, was revised and print paper and pulp have been coming into the country from Canada under its provisions, although little has been said about this phase of the proposition, in the public press.

It may be in line with good policy to conserve our supply of pulp wood by such means, although it would not appear that it was wholly necessary to provide for it by this cleverly manipulated method, which is brought forcefully to public attention for the first time by the assimilar manner.

It is not uncompared to be the favored nation clause of their treaties in a similar manner.

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Teaching Agriculture mon for speakers in the Schools.

Act. This bill represented the results business world to advocate the teaching of agriculture in the common schools and to refer to what is being done in other states or countries along this line. As a made a better start in the teaching of agriculture in the public schools, than a made a better start in the teaching of agriculture in the public schools, than a made a better start in the teaching of agriculture in the public schools, than a first clause of the fact—Mr. Colman received many honorary degrees and decorations from foreign agriculture in the public schools, than the fact of t honors in his own state and was ap-

achievements of Mr. Colman, of which his numerous friends, and, indeed, the There is no line of work which would country at large, may be justly proud.

TEACHING AGRICULTURE IN OUR SCHOOLS.

Farmer and the Farm Boy.

I think farming one of the noblest callcome in contact with it cannot but feel worth while. My experience as a boy, over forty years ago, was that the farmer boy was jeered at and made fun of by the town boys. But in this regard things have changed. Our boys can now go to town and talk base ball, foot ball and farming with the town boys on equal terms, and all seem to take an interest in farming as well as in sports and games.

I think the general interest taken in the teaching of agriculture in our schools has brought about the change, and am pears in this issue, being the opinion of certain that these modern influences have the advantages to be derived from the community. The boys so taught can go teaching of agriculture in the schools, forth into the world and set examples Other similar letters will follow, giving that others may follow, and that will be

I could enumerate many benefits to be tion of school improvement squarely to derived from the teaching of agriculture their attention at a time when the in our schools, but the all important one some value in solving this impending men who have the up-to-date knowledge as well as practical experience to get early more out of the soil and still build up The First Secretary days of November the depleted fertility of our farms, thus announcement making provision for future generations of the death of the which they will surely need.

We have a farm one mile from a hustling town and have six boys from eleven from the field of action a man who has to twenty-three years old, all at home things on the farm and take pleasure in seeing the work pushed along. I think ture, in or out of school, and say, push the good work along.

Otsego Co. J. H. BARTON.

HAPPENINGS OF THE WEEK.

National.

Farm buildings in the United States were valued in 1900 at \$3,555,640,000, whereas in 1910 the value had increased 77 per cent and amounted to \$6,294,737,-

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R. C. COOL, Southport, N. C.

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Homeseekers-Attention

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To Baldwin Block

INDIANAPOLIS INDIANA

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States in two cases brought by the Facilite States Telephone & Telegraph Co, and the taxpayers of Orgon. Immber of governors of western states will visit. Michigan the latter part of November. The purpose of their visit is to awaken in the case of the state of the

MICHIGAN CROP REPORT.

Wheat.—The condition of wheat as compared with an average per cent is, in the state and upper peninsula 90, in the southern counties 87, in the central counties 93, and in the northern counties 94.

The total number of bushels of wheat marketed by farmers in October at 129 flouring mills is 251,052 and at 143 elevators and to grain dealers 320,944, or a total of 571,996 bushels. Of this amount 392,774 were marketed in the southern four tiers of counties, 145,465 in the central counties and 33,757 in the northern counties and upper peninsula. The estimated total number of bushels of wheat marketed in the three months, August-October, is 5,000,000. Seventy-seven mills, elevators and grain dealers report no wheat marketed in October.

Corn.—The estimated average yield of corn in bushels is 32 in the state, 33 in the southern counties, 31 in the central counties, 30 in the northern counties and 37 in the upper peninsula.

Clover Seed.—The per cent of acreage of clover seed harvested as compared with average years, is 64 in the state and northern counties, 61 in the southern counties, 61 in the southern counties, 61 in the southern counties, 62 in the central counties, 63 in the central counties, 63 in the central counties, 64 in the super peninsula.

By the counties and 2.00 in the upper peninisula.

	THE MICHIC	GAN FARMER.
of is.	tion, which has its headquarters in New York city, consists of men of prominence from all parts of the countries. Michigan is represented among others, by Dr. J. B. Angell of the state university. John T. Shaw, president of the First National Bank of Detroit, was fatally injured in an auto crash Sunday while journeying in Ohio from Cleveland to Willoughby. The railroad traffic in the north central	Commercial Fertilizers.—The per cent of farmers who have used commercial fertilizers on their wheat this fall, is 19 in the state, 27 in the southern counties, 20 in the central counties, 4 in the northern counties and 1 in the upper peninsula. Live Stock.—The average condition in
y. o. d-	year. It is generally estimated by traffic men to be 20 per cent higher. It is reported that the administration	
dis.ga, lineose do itBh ynmer.	is drafting a bill to supplement the Sherman anti-trust law. The nature of the proposed measure is not divulged. Two thousand visitors are expected at Columbus, Ohlo, this week to attend the eight agricultural conventions to be held there. The different organizations holding their sessions are: The American School of Agronomy, The American Association of Agricultural Institute Workers, The Ohlo State Grange, The American Association for the Advancement of Agricultural Teaching, The Society for the Promotion of Agricultural Colleges and Experiment Stations, The Association of American Seed Analysists and the National Grange. Prominent men from all over the country will be present and address the different organizations. The constitutionality of Oregon's initiative and referendum law is being tested by the supreme court of the United States in two cases brought by the Pacific States Telephone & Telegraph Co.,	Wheat acreage. bushels. Corn 1,684,972 32. Oats 1,471,948 27. Barley 94,050 22. Rye 428,129 14. Buckwheat 75,909 14. Potatoes 354,734 92. Beans 438,858 12. Peas 73,500 12. Clover Seed 144,412 1.49 Apples 269,449 41.08 Peaches 30,000 51.75. Pears 9,398 69.15 Plums 7,063 44.67 Cherries 5,097 37.81 Strawberries 10,217 61.42 Raspberries 6,300 32.54
a.ind p-ind ill dill s.y	and the taxpayers of Oregon. A special train carrying a number of governors of western states will visit Michigan the latter part of November. The purpose of their visit is to awaken interest in the possibilities of the west, as well as to become more intimately acquainted with the eastern states. Because they were compelled to eat food which they deemed unfit, waiters at Sage Dormitory, Cornell University, are out on strike. Foreign. A by-election held in the city of London for selecting members to the British House of Commons resulted in a gain of one member for the unionist party.	NATIONAL CROP REPORT. The Crop Reporting Board of the Bureau of Statistics of the Department of Agriculture estimates, from the reports of correspondents and agents of the Bureau, as follows: Corn.—Total production for the year, 2,776,301,000 bu., compared with 3,125,-713,000 bu. in 1910. Average yield per acre, 23.9 bu., compared with 27.4 bu. in 1910 and 26 bu, the average for the past 10 years. Percentage of 1910 crop on

Nov. 1, 1911, was 13c and 65.9c Nov. 1, 1910.

Potatoes.—Production, 281,735,000 bu., compared with 338,811,000 bu. in 1910 and a five-year average of 304,513,000 bu. Average yield per acre is given at 80.6 bu., compared with 94.4 bu. for 1910 and a 10-year average of 92.8 bu. Quality is placed at \$5.3 per cent, compared with a 10-year average of 87.7 per cent. The price per bu. Nov. 1, 1911, was 76.3c and 55.7c Nov. 1, 1910.

Hay.—Production, 46,969,000 tons, compared with 60,978,000 tons in 1910 and five-year average of 63,418,000 tons. The average price per ton on Nov. 1 1911, was \$14.62, compared with \$11.96 on Nov. 1, 1910.

1, 1910.

Apples.—Average production of 1911 crop, 62.4 per cent of full crop against 43.5 per cent of a full crop in 1910, and 49.4 the ten-year average percentage of a full production. The quality is 78.2 per

CROP AND MARKET NOTES.

Newaygo Co., Nov. 1.—Too much rain for everything. Wheat is looking yellow; corn fodder getting very black; not much of the corn husked out yet. Beans are a poor quality with a yield of about 10 bushels per acre and selling at \$2 per bushel in our market. Potatoes are poor in quality and will hardly keep until spring; they are selling at a good price and still going up. Only one light freeze, followed by a light skiff of snow, which frosted lots of undug potatoes. Wheat, \$4c; cats, 45c; corn, shelled, 70c; rye, 80c; potatoes, 55c; eggs, 26c per doz; butter, 26c lb.; hay, \$20 per ton. Lots of auction sales this fall and a good many farms changing hands, going to outside buyers.

yield per acre in busnels is 1.49 in the state, 1.39 in the southern counties, 1.68 in the central counties, 1.64 in the northern counties and 2.00 in the upper peninsula.

Potatoes.—The estimated average yield An unusually well balanced program has per acre, in bushels, is 92 in the state, 84 been arranged and preparations made for in the southern counties, 87 in the central

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PRACTICAL SCIENCE.

ANALYSIS OF THE SOIL .- III.

BY FLOYD W. ROBISON.

We have observed the possibility of considerable difference existing between immediate productive capacity of a soil and the permanent productive capacity. We have likewise observed that one may be very much deceived by judging a soil upon the results of its immediate productive capacity, likewise, on the other hand, a soff of much promise may be passed by as undesirable because of its lack of sufficient immediate productive capacity, where if it were properly handled so that its immediate productive capacity were improved it might, because of a very desirable permanent productive capacity, prove to be a very desirable soil. A careful chemical analysis, coupled with a quite thorough mechanical analysis, will give one clue to the permanent producing capacity of a soil. If to this analysis we add a chemical analysis of the capillary water of that soil, or what may perhaps be considered closely similar, an analysis of the watery solution a full growing year but can be carried of that soil, we will have a very fair idea of its immediate productive capacity as well.

Perhaps one of the most desirable methods of determining the productive capacity of a soil is by means of what sketch for naking this so-called plot, or we may call the physiological analysis physiological analysis. of the soil. By a physiological analysis of the soil we mean here an analysis through the medium of the crop. This style of analysis requires, as will be seen, practically a season for its comple-Incidentally, the physiological analysis of the soil may be used as a basis one-fortieth acre each, separated from for the ascertaining of the fertilizing each other by a path from two to three requirements of a certain soil. To the farmer who is capable of observing results closely, and who can exercise good judgment, it is quite desirable that his farm be so arranged as to different fields, etc., that it is possible for him to carry cut from time to time a series of experiments on the different fields to ascertain the condition of fertility and likewise ascertain at the same time what fertilizing materials may be added advantageously to the soil.

Most farms are laid out without any apparent regard to the classes of soils which go to make up that farm. One large field, for example, may contain a great variety of soils. It is very difficult to crop such a field advantageously and economically. It is likewise very difficult to fertilize intelligently such a field. If the high portions of the farm were re-served by then selves and the low portions were likewise segregated or arranged in fields by themselves, then it would be comparatively easy to carry out a systematic cropping of the soils and likewise a systematic fertilizing of that soil. There is no doubt that certain soils, because of their different physical and chemical composition are differently adapted toward crops. Not all soils will produce a crop of corn equally well with equal economy. various truck when the farmer divides his farm me- scribed. chanically and regularly into different say, to mint growing, to respond for the tilizer to be added to this soil in the

sake of harmony to the growing of a crop of corn which he may have decided to plant upon this field because perhaps the major portion of that field may be best adapted to corn growing. This difficulty is, of course, not encountered when the farm is level and uniform.

On a soil that is level and uniform, the variety of agricultural possibilities is perhaps not so great as on a soil that is varying in its physical and chemical characteristics. On a uniform soil, how ever, it is possible to know its possibilities and its fertilizing requirements with a great deal more exactness than is possible on the other soil. On such a soil the physiological analysis is a decidedly feasible and, in fact, desirable analysis to make.

Hilgard's system of determining the fertilizing requirements of a soil is, in our judgment, an excellent system to follow, not only in determining the fertilizing requirements of the soil but also in determining the adaptability of that soil to different crops. This will require on at the same time as other farming operations and if done carefully need not interfere with the ordinary farm operations, nor utilize a large portion of the We give below a diagramatic farm.

On a field which is uniform in physical respects and is so arranged that one portion of the field is of practically the same quality and class of soil as the other portion of the field, perhaps in the center may be laid out a series of plots of say, or four feet wide. On these different

		A STATE OF THE PARTY OF THE PAR
CORN	WHEAT	POTATOES
CLOVER	BEANS	ALFALFA
CORN	WHEAT	POTATOES
CLOVER	BEANS	ALFALFA

Scheme for making Physiological Analysis of the Soil.

plots different crops may be planted; for example, corn may be planted on one; wheat on another, perhaps buckwheat Nor are all soils simi- may be grown on another; potatoes on larly adapted to wheat growing or to another; beans on another; clover on angardening propositions. other, etc., taking care that the plants This condition is recognized generally do not run into each other nor the seeds when we know that in certain sections become distributed from one plot to the of the state and country wherein the soil other. The results of these various tests, is uniform and of particular character, all things being equal, will determine to certain definite farming operations thrive a high degree of satisfaction to which We know, for example, that the one, or to which ones of the crops plantvicinity of Kalamazoo has become world- ed that soil seems best adapted. This famed for its production of celery. We is not a simple experiment by any means, may likewise know that down in this but will require the keen judgment and same section is grown the greater portion discretion of a man who is in the habit of the peppermint of the world. A great of observing closely. It should also be many farmers have in their fields a soil borne in mind in this respect that his that is well adapted to the growing of judgment is again called into play in as-In other portions is a soil that is certaining the effect upon these different well adapted to the growing of wheat; crops, of the particular season. One year in still another portion is a soil that is may not be a favorable year for the well adapted to the growing of celery, or growing of potatoes, because it may be mint, or other crops. To so lay out the too wet or too dry. The year may be too farm that one field has in it all classes wet for corn, and to decide this calls for of crops just mentioned above is to make the exercise of keen judgment on the sure that the farmer is operating much part of the farmer. But we know of no below his possibilities on this farm. One plan which will give a greater degree of would not think of planting wheat on the satisfaction than this same plan of exsoils which are especially adapted to the perimentation, and we think it will well growing of mint; nor would one expect to repay the farmer to dedicate a small porget desirable results by planting to mint tion of his farm, which portion is fairly a soil that has been shown to be especi- representative of that farm, to the purally adapted to the growing of corn, but poses of experimentation as herein de-

After having determined the adaptabilfields without regard to the kinds and ity of the soil through one season, percondition of the soil in those different haps, to this or that particular crop, the fields, then he is compelling the soil same system may be resorted to to dewhich may be adapted especially, we will termine the most desirable kind of fer-



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fortieth-acre plots reserved for experi- tire truth of the matter. mentation. To six of these we may ap- Some cows will produce milk at the ply different kinds of fertilizers and the expense of the body weight while others ticular fertilizers are concerned. To the will not add the lime. We will now, per-

NITROGEN CORN LIME	PHOSPHORUS CORN LIME	POTASH CORN LIME
CORN	NITROGEN PHOSPHORUS POTASH CORN LIME	CORN LIME =(
NITROGEN	PHOSPHORUS	POTASH
CORN	NITROGEN PHOSPHORUS POTASH CORN	CORN

Plans for ascertaining most favorable treatment for a soil planted to corn.

haps determine the effect of these differgrowth of the crop of potatoes, we will say, or if we have decided to use wheat upon this soil, let us plant these different plots to wheat and determine under judgment, No. 988, the text of which which system of fertilizing the wheat produces the best crop, or corn, or any other crop which we decided to grow upon this field. We give herewith a sample experiment plot in diagram.

ECONOMICAL PRODUCTION .- III.

The development of the idea of the balanced ration for feeding dairy cows has resulted in the compiling of definite and desirable data on the cost of milk production and on the nature of the feed to be used for the economical production of When the balanced ration was first proposed the Wolff Feeding Standard was quite religiously adhered to by feeding experts. The basis upon which this standard was based was the weight of the animal. For a 1,000-pound dairy cow it was assumed that she should require in the ration, daily, about two and one-half pounds of digestible protein and that this protein should bear a certain more or less definite ratio to the other constituents of the feed, i. e., nitrogenfree extract and the fat. The idea of the balanced ration is right but the ratio must not be too iron clad. The food requirements of an animal do not depend directly upon the body weight but more directly upon the body surface of the

Armsby, in his work on cattle feeding and the maintenance requirements for dairy cows used a factor compiled according to the body surface of the animal rather than according to the weight. Even then, however, on dairy cows the results do not bear out tying too religiously to an exact ratio. Two cows of approximately the same weight and approximately the same body surface will vary considerably in the yield of milk and because of this variation their feed requirements are essentially different. A cow giving a large flow of milk will be inclined to be underfed by the feeder, whereas a cow giving a light flow of milk will be apt to be overfed.

Eckles, of the Missouri station, carried out an experiment on the feeding for and on the sides of the packages were milk production in which very nicely developed. He states very emphatically that the cow of high milk showed the product to be renovated butproductive capacity is exceedingly liable quantity of milk which she is daily gencow is taken by the animal to keep that when exposed for sale, the packages were asimal a cow, or in other words, to keep so arranged that the words "Process animal body, and after this amount has of the public. been supplied then there is material At the same term of court the defendnot an undesirable one to inculcate in said fine to \$75.

production of this or that particular crop, the mind of the feeder even though, per-Suppose that there are twelve different haps, it does not state the exact and en-

second six may be reserved as a dupli- will make body weight at the decided excate of the first six insofar as these par- pense of milk production and we therefore find that in the last analysis the infirst six, however, we will add a liberal dividuality of the animal is an item that supply of lime but to the second six we we must give greater and greater attenwe must give greater and greater attention to. It is well, however, to consider that in cows of high productive capacity maintenance requirement of the animal should have proper consideration in order to make proper allowance for the food material which the animal is manufacturing and in order that when this food material is manufactured by the animal she is not manufacturing it at the expense of the body weight.

On the other hand, for economical feeding it must not be forgotten that after a satisfactory physiological condition is created in the cow, that the feed should be then governed largely by the results obtained in milk production. In other words, if the animal of low productive capacity is placed on the same basis as the animal of the high productive capacity, such as mentioned above, the animal of low productive capacity will not increase in the output of milk but will begin to take on fat, which is an evidence of overfeeding.

FLOYD W. ROBISON.

LABORATORY REPORT.

Humbug Oil.

It seems almost impossible that a product labeled as above should find sale in ent fertilizers on this soil, upon the these days and yet not only has it been on the market but it has been the cause of an action under the Food and Drugs Act, and the issuance of a notice of reads as follows:

On April 4, 1911, the United States Attorney for the District of Minnesota, acting upon the report by the Secretary of Agriculture, filed information in the District Court of the United States, against Mrs. J. F. Marshall Smith, alleging shipment by her, in violation of the Food and Drugs Act, on or about May 4, 1910, from the state of Minnesota into the state of Utah, of six boxes of a drug denominated "Humbug Oil," which was misbranded. The labels on these boxes contained the statement: "Humbug Oil relieves diphtheria of the most malignant

Analysis by the Bureau of Chemistry showed the product to consist of immiscible portions, one an oil 40 per cent by volume, half volatile (oil of turpentine), and half non-volatile (apparently linseed oil); the other 60 per cent by volume, consisting of hydro-alcoholic solution of ammonia water, ammonium salts, and a volatile alkaloid, probably conin. Misbranding was alleged for the reason that these ingredients do not possess properties to relieve diphtheria of the most malignant type, and the statement on the label to that effect was, therefore, false and misleading.

On April 13, 1911, the defendant pleaded guilty and was fined \$5.

Misbranding of Butter.

Another notice of judgment, No. 1018, which concerns the misbranding of butter, reads:

On April 11, 1911, the United States Attorney for the Southern District of Iowa, acting upon the report by the Secretary of Agriculture, filed information in the District Court of the United States against S. P. Pond Co. (Inc.), Keokuk, Iowa, charging shipment by that company, in violation of the Food and Drugs Act, on or about Oct. 9-14, 1910, from the state of Iowa' into the state of Pennsylvania, of a quantity of butter which was misbranded. The product was labeled (on the top of the packages) "Gold Seal Warranted Pure, Fine, Fresh Butter," Butter

Analysis by the Bureau of Chemistry ter. Misbranding was therefore charged to be underfed because the feeder does for the reason that the label on the top not take into sufficient consideration the of the packages of the product was false items drawn upon in the system of the and misleading and calculated to deceive animal in the production of the larger the purchaser and because the words "Process Butter" which appeared upon erating. Ordinarily we say that the first the sides of the packages did not lessen use of the feed that is given to the dairy the deceit created by the top label, for up the maintenance requirements of the Butter" were entirely hidden from view

available for the production of milk. This ant pleaded guilty, and was fined \$200 and theory is a very beautiful theory and is costs. On June 7, 1911, the court reduced



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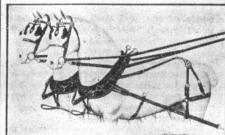


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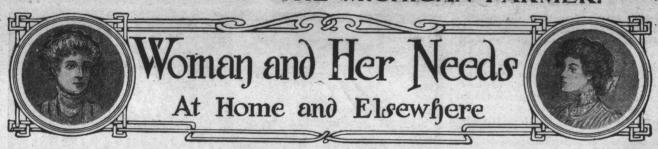
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THE NEW PAPER BAG COOKERY.

has not said that scores of times?

whereby the dreaded pots and pans may come an ardent devotee. be done away with, a method which is to revolutionize the whole scheme of domestic science, if we can take the word of its discoverer and advocates.

Paper bag cookery, the new method, has been attracting the attention of American cooks for a few months back. The originated with Soyer, chef of a famous London club, who in turn got the idea cooked certain foods in paper, or "en papillotte." came from prehistoric times when foods and ten. were cooked wrapped in leaves, or perundreamed of by civilized housewives of the leading periodicals, and her writwho depend on roasters and kettles.

Even American housekeepers who have never heard of paper bag cookery have used the idea occasionally, for practically every housekeeper has at some time or other wrapped something she was baking in a sheet of paper to prevent its burning. In paper bag cookery you simply carry the idea a step farther and put the food directly into a well greased paper bag, then lay it either in a broiler or on the oven grate. If you use a coal or wood range with a solid iron oven shelf a broiler is necessary since you need a circulation of air around the food. If you have a gas, oil or gasolene oven with grated shelves the bag may be laid directly on the shelf.

Like every new idea great things are claimed for this system of cookery. Its devotees claim that it saves time in cooking, since paper is a good non-condctor of heat and preserves an even temperature, thus facilitating the cooking. Then it saves waste, by keeping the be served with the food and not thrown into the sink with the water the food popularly called "her prime." was cooked in. It prevents meats from shrinking, say they, and if you put four bag and burn it up when the food is cooked and have no greasy cooking dish to wash afterwards.

However, not every paper bag can be used in this sort of cookery, for obvious reasons. If your food is to be absolutely pure you must have clean, pure bags to cook with.

Among the things one can cook in pasorts, vegetables, pastry, cakes, beef tea, and other invalid dishes. Soup could scarcely be made in this way, and there are other things which call for the good tributed and no direct draught strikes magazines since 1894. them when the oven door is opened.

of water to a good-sized potato.

WOULDN'T mind washing dishes if stove and ventilated thoroughly during it wasn't for the pots and pans." the process of cooking. The housekeeper Lives there a girl or a woman who who is fond of trying out new ideas will find much in paper bag cookery to inter-Now comes a new system of cookery est her and after experimenting may be-

> WOMEN WHO ARE DOING THINGS. No. 4.

> > Margaret E. Sangster.

Those young people who think that at sixty years father and mother should sit idea came over from England where it down with folded hands and leave all work to more youthful minds and hands would do well to take a lesson from the from France where chefs have for years list of American writers, some of the financial returns and the consciousness best known of whom are still busily writ- of being regarded as a success, it all too The idea, declares Soyer, ing though past the age of three score frequently robs woman of her domestic-

Margaret Elizabeth Sangster, who was haps from the gypsies who encase their 73 years of age last February, is still hard charms, hardens a heart which should be game or meat in clay and produce results at work contributing articles for several

Margaret E. Sangster.

ings hold just as much now of wisdom juices and flavors confined in the bag to and good cheer, are just as carefully handled, as when she was in what is

According to the laws of psychologists Mrs. Sangster should have been worn out alluring. pounds of meat in the oven four pounds long ago, for she could read at three come out. Last, but not least, it saves years of age, and such precocity should times afterwards as you tear off your presage early waning powers. She wrote her first accepted story at sixteen, and still exhibits with pride some pieces of silver which she bought with the money. For the benefit of struggling young authors, let it be said that she received \$40 for her maiden effort, the story being published by the Presbyterian Board of Publications of Philadelphia.

Mrs. Sangster was born at New Roper bags are roasts, steaks, chops, stews, chelle, N. Y., on Washington's birthday, eggs, fish, poultry, entrees of many and was educated privately. She was married to George Sangster in 1858. Shortly after she became a regular contributor to leading magazines and has since been associate editor of Hearth and old-fashioned way of cooking. It is Home, the Christian at Work, Christian dreds of women already in the city lookclaimed that puff paste and cakes are Intelligencer, editor of Harper's Bazaar lighter and better if cooked in paper from 1889 to 1899, and staff contributor bags, as the heat is more evenly dis- to the Christian Herald and other leading

but not flavored, slipped inside a greased written stories and verse as well. Among aged by their acquaintance from the bag and cooked in a moderate oven, althe products of her pen are "Easter metropolis. But when they make the lowing 15 minutes to the pound. Turkey Bells," "Poems of Household," "Home and other fowls may be cooked the same Fairies and Heart Flowers," "Hours with begins.

The products of her pen are "Easter metropolis. But when they make the suggestion to their own family, trouble begins.

The products of her pen are "Easter metropolis. But when they make the suggestion to their own family, trouble begins." "Don't go down into that Sodom," the products of her pen are "Easter metropolis." "Don't go down into that Sodom," the products of her pen are "Easter metropolis." But when they make the suggestion to their own family, trouble series and Heart Flowers, "Hours with begins." "Don't go down into that Sodom," the products of her pen are "Easter metropolis." But when they make the suggestion to their own family, trouble series and Heart Flowers, "Hours with begins." "Don't go down into that Sodom," the products of her pen are "Easter metropolis." But when they make the suggestion to their own family, trouble series and Heart Flowers, "Hours with begins." In cooking a roast it should be greased magazine articles, however. She has city in search of work and are encourcup and a half of water in the bag with "Good Manners for All Occasions," "Life moans mother. "The city is a wicked the bird, of course, putting in seasoning on High Levels," "The Little Kingdom place, my dear," quavers father. "You and vegetables if you desire.

Of Home," "Radiant Motherhood," "The Cooked in bags, allowing only a small Read," "On the Road Home," "Our Own" quantity of water to the vegetables." quantity of water to the vegetables. Po- and "The Help that Comes Too Late." tatoes may be baked, or peeled and The last three are among the best known cooked in water, allowing a tablespoonful of her poems.

Those who have partaken of dishes Mrs. Sangster's valuable assets. She cooked in bags are most enthusiastic in writes through noise and conversation, if have occurred in the metropolis for the their praise. Their comments remind it is necessary, and if interrupted can past five years. To hear the conclave, one of the ecstasies of admirers of fire- resume her thread of thought with little less cookers, until after they have dis- difficulty. She is a perfect housekeeper, covered that there are many things which thus again upsetting the tradition that tiful to enter a rare not nearly so good cooked in the women writers neglect their homes. She wickedness that "caloric" cooker as when cooked on the has a gracious, charming personality and pure soul therein.

instantly makes a good impression on strangers. Her voice is low and soft, her hands small and her eyes are blue-gray in color. She is a prolific reader of all good books, loves books of biography but cares nothing at all for books of travel Her favorite flower is the mignonette.

GIRL'S CHANCE IN THE CITY.

The best place for girls is the home. With that fact firmly in mind, there should be no danger that anyone who reads these lines will interpret the article as a plea for girls to leave home for the dazzling, but unsatisfying prospect of a career in the business or professional world, for such a life is not a desirable one for women. While it may bring ity, rubs off a goodly share of the sensitive reserve which is one of her chief all gentleness and sympathy and often dulls her moral sense as well.

But in spite of these facts there are many women who are forced to enter the business world whether or no. world-old principle that "he who will not work shall not eat" hits many of us hard, for not all are fortunate enough to have someone else to provide for us. Many a woman who much prefers a quiet home life finds herself forced to become the breadwinner for herself and two or three dependents, father and mother, an invalid sister, or perhaps her own little ones. The country has little to offer such women in the way of employment. There is domestic service, of course, but this does not promise enough to furnish support for three or four people; there is school teaching, for which very few women are fitted and fewer still have any great taste; there is clerking in some country store, but such chances are few and there are more people waiting for them than there are positions to offer. Sewing, for the woman who is handy with her needle, offers another chance of work, and there you have about all that may be done by women.

No wonder that for the women who are forced to work, the city looks so They meet someone who has gone to the city and made good, and hear fabulous tales of the opportunities which lie around just waiting for someone to take them. Kitchen girls are reputed to get just about three times what they could get in the country, while nursemaids live like ladies and have nothing to do. There is practical nursing for the woman who is handy in a sick room; countless big department stores to offer work for salesladies, work for book-keepers, stenographers, copyists and office girls, not to mention scores of other sorts of work that a capable girl or woman

These women hear these stories, of course, without any mention being made of the fact that there are already huning for work, or even the slightest allusion to the steps to be climbed and the hard knocks to be endured before they can hope to get to the top in any pro-Her work has not been confined to fession. They determine to come to the

won't know a soul and you'll die of lonesomeness," prophecies sister. All the friends get together and ask what she intends to do when she gets there; recall all the stories they have heard of girls who have failed in the city; point out all Great power of concentration is one of the pitfalls that lurk for the unwary, and gloomily talk over all the murders which past five years. To hear the conclave. one would think the girl was about to leave all that is good and pure and beautiful to enter a realm of such vice and wickedness that she would be the one



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CASH for FURS! Just enough truth in this to make it dangerous. The city is wicked, of course. But there is no more wickedness in cities. in proportion to the population than in the country. 'ine fact that so many people are congregated in one place, makes the crime seem greater. But human nature is the same wherever it is found, and the girl who would be a good woman in the country and make a success of her work, will be a good and a successful woman in the city. It is the life within that makes her what she is, and if she possesses the characteristics which go to make goodness and success, these characteristics are not going to be changed simply because she changes her

There are two classes of girls who should be kept from the city. These are the densely ignorant and the irresponsible. A pen picture will tell you why the former should stay away. Walking up the street towards the Union depot, a man was accosted by a girl of twenty, just arrived from the country.

"Say, mister, can you tell me where I can get work?" was her salutation.

Less than a half block away was the free employment bureau, and the man led her there and left her, after first instructing her as to what to do there, and urging upon her the imperative necessity of speaking only to men who wore suits with brass buttons, and carried a club. The Providence which watches over sparrows directed this girl to the right man, but suppose she had met the wrong one?

As to the irresponsible girl, she should never be allowed anywhere without a guardian. Nothing has any weight with her but the impulse of the moment, and to turn her loose alone in a big city would be nothing short of a crime. But the intelligent girl, even if uneducated, who is governed solely by a strict sense of right and duty is as safe in a city as she is on a farm. Her own womanliness and common sense will tell her the sort of friends to make and the amusements to shun, while her willingness to work and her conscientious performance of duty will bring her advancement.

DEBORAH.

WHAT CAN WE DO ON STORMY DAYS?

"How can I amuse my two boys, aged four and five years, on stormy days?" writes a mother. "I should like to hear from other mothers through The Farmer who have to keep active children busy and happy when the weather will not permit them to play out doors. Any new idea will be most gratefully received."

Will not the mother who asks for help write and tell other mothers the things she has already done to entertain her children ?- Ed.

CLEANING LACES.

White waists badly stained with perspiration can be cleaned by putting them in a strong solution of castile or any pure soap, then placing in the direct sunlight until the yellow is withdrawn. To make the solution, shave one bar of soap and dissolve in one to three quarts of hot water. The dirt is removed from the lace not by rubbing, but by swashing up and down in a new soap solution, and it is then thoroughly rinsed in two or three clear, warm waters. The lace is next stiffened in weak gum arabic water -one or two kernels to one pint of water. The gum arabic is added to warm water and placed over hot water until dissolved. It is well never to wring lace, but rather to squeeze the water from it. To dry the lace it is pinned on a woolen blanket, or pad, which has been securely fastened to a table. Each point is firmly pinned and the lace is left until perfectly dry. Much may be done toward giving the effect of new lace, if each point is not only carefully pinned out, but when dry, picked out with the fingers.

Suk laces are cleaned by brushing or rolling in corn meal, or magnesia. The dirt adneres to the flour, or powder, leaving the lace clean. When treated in this way, laces need more frequent cleaning. but appear more like new lace. Yellowed, white silk lace may be steeped in a hot bath of milk and borax and bleached in the sun. M. A. PROPST.

Editor Household Department:-I would like a recipe for making butterscotch candy.—J. C. W., Homer, Mich.
One cup brown sugar, one-half cup of

cold water, one teaspoonful vinegar, butter the size of a walnut. Boil till it snaps in cold water, then turn on greased tins and mark in squares.





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HOME AND YOU'

MY UNCLE'S EXPERIENCE.

BY EMILY L. WOOD.

One evening, knowing my uncle was in his library, I rapped at the door. In his usualy pleasant voice he bade me enter. I found him sitting with no light save a soft glow from the grate.

I seated myself and for a time, not a word was spoken by either of us. Finally yet." he thus broke the silence: "Well, Jamie! is it fully decided that you are to go and to Boston to take up the study of law with Judge Marx?" I replied in the affirmative

"You will find the Judge a man of inoughly fitted to fill his honorable posi-But city life affords many alluring temptations, many snares and devices to mislead the unitiated youth."

To this I replied: "It would indeed to all your wise teachings, both in precept and example."

"Have a care," said he; "do not be too sure you will be proof against allure-Seldom do I refer to the past, but, that it may possibly be a benefit to you, I will relate some of my youthful experience if you care to listen.

Eagerly I expressed a wish for this, for, although socially inclined, on the subject of his past life he had been very reticent.

My uncle proceeded at once with his story, which I will give in his own words. My parents, in moderate though comfortable circumstances, dwelt with their three children upon a farm. My sisters and I attended the country school and, later, that I might be qualified to engage in business, I was sent to a higher institution of learning, in the village not far distant, still spending Saturdays and be spent at our homes. Upon arriving Sundays at home.

On a farm adjoining my father's lived arms. a Mr. Holmes. The families had always been on the most friendly terms, and I felt like a culprit who had betrayed the between Mr. Holmes's oldest son and trust of his dearest friends. Whether myself there developed an intimacy that they suspicioned the true state of affairs is seldom paralleled. In fact, we were almost inseparable; wherever Charlie Holmes was, there would be found Hiram find answers without bringing myself to

Charlie, being a bright youth and one year my senior, finished the business and went to the city in search of employment. Being pleasant and attractive, he quickly succeeded in gaining a desirable position in a large boot and shoe establishment and soon began writing glowing descriptions of city life, berating a humdrum life on the farm. Fascinated to finish my course at school, that I, too, might try my fortune in the wide world, and I even requested him to look for a place for me.

a letter from Charlie stating that there a little more careful, but said: was a vacancy in a store of general merchandise, where he had recommended me. He was sure I was fully qualified to fill the position and would be pleased where he was employed. I could scarcely restrain myself from shouting, so elated was I at my brilliant prospect.

At the close of the school year I recame home for a short vacation, and so enthusiastic was he in describing the advantages of the city for a young man that I was thoroughly captivated. My parents, wiser than I, did not enter into the spirit of this as I would have liked:

various duties assigned me.

My chum took great pains to bring me say no. into notice among the young people with are all right in their way."

which, at Charlie's urgent request, I atclub, where games were played, and candies and fruits were in demand, besides cigars and soft drinks as they were called. I sometimes remonstrated with my friend when urged to attend these meetings, when he would say: "Oh, what's the harm? We can be young but once; we will be old soon enough; then we will settle down, but not just

It was my aim to please my employer to work for his interest, and I can say that I tried to do so, partly, perhaps, with a view to promotion, but mainly from a sense of duty. But at times, after one of our club meetings of unusual tegrity and true sterling worth, one thor- length, I would be languid at my work and would detect the sharp gaze of my employer fixed upon me. Then I would have a confidential talk with Charlie, tell him that we were not spending our hours for rest and recreation as seem strange were I to prove recreant should, that there was nothing elevating in our gatherings; that, instead, they had a demoralizing tendency. Still, I did not act the manly part and break entirely away from such associations as I should.

> Entertainments were given to which neither Charlie nor I would have allowed our sisters to go; games which were at first played for pastime gave place to those of chance; soft drinks were supplanted by wines and other genteel beverages, and still we went on degrading ourselves to the level of those deep dyed in sin, while our prospects for breaking away seemed daily growing more doubt-My dear, genial friend, whom I loved as a brother, not unfrequently went to his lodgings bewildered by drink, nor was I a step behind him.

The time was drawing near when we were to have a vacation, which was to there we were met with outstretched

Oh, the remorse that then possessed me! was unable to determine, but to their searching questions it was difficult to shame or breaking the hearts of my parents and sisters, but the truth I would tell, so far as I revealed anything, for course at the village school before me I had not yet fallen so low as to tell a falsehood.

I sought an interview with Charlie as soon as practicable and frankly told him I could no longer deceive those who were so dear and who had done so much for me; that I scorned to play the part of a hypocrite, or to live a two-faced by his flowery letters, I was impatient life; that, for me, I was fully resolved to break all connections with our new asso ciates and start anew a straightforward and honorable course.

He admitted that we had been a little My schooling nearly finished, I received reckless sometimes and that we must be must not break from the boys altogether. for they are good fellows at heart and are all right."

Our friends made our stay at home as with it; also that it was near the place enjoyable as possible, but the time soon came when we must return to the city Bidding my parents and sisters an affectionate farewell, I left them again, fully determined that I would no longer ceived my diploma and considered myself act a cowardly part, but take a bold fully equipped for business. Charlie stand for what I knew to be right, even though I exposed myself to the jeers and taunts of my depraved associates. Alas! how often are good resolutions proven too frail to withstand the force brought to bear upon them.

Arriving in the city we were informed they even intimated that Charlie had that a tally-ho had been engaged by the not the frank, wholesouled manner that club for a ride to the park a few miles was his a year ago. However, by much from the city on the following day, which persuasion from both Charlie and myself, was Sunday; that this had been arranged after giving me much wholesome advice, in honor of our return. To this plan I they gave a reluctant consent for me to most seriously objected, as in my home accompany Charlie, on his return to the training I had been given to understand that the Sabbath was a day for rest and I obtained the position of which my worship, a day that should be held friend had written and, in due time, be- sacred. But, as usual, there was such came thoroughly acquainted with the pressure against my objections that they gave way, I not having the stamina to

Sunday morning found us, with our whom he had already become acquainted, four-in-hand, gliding along over the which was very kind of him. Still, I smoothly paved streets toward the park, observed that many of them were not seemingly all in the best of spirits. The such as we would have chosen at our own drive was a delightful one, and the park homes, and I mentioned the fact to was most enchanting with its groves, Charlie. He replied, "Oh, of course, lakes and cozy nooks, walks and drives society in the city is different; but they bordered on either side with the most beautiful flowers; still, it had little charm Evening parties and balls were given for me. I was ill at ease; my conscience

tended, but confess that I saw and heard much which at home would not have been tolerated. Against my better judgment I was persuaded to join the young men's club, where somes were played and the property of the property o duced this roadster-



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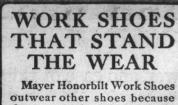
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But through the air, grown warm 'neath midday sun, There steals a chill of frost when day is done.

The low-voiced katydids' accusing cry,

a sin. None knew of this, however, for, my full vigor. false pride bearing me out, my appear- On my firs ance was very deceiving.

took. us that it was time to return to the city degree, I was responsible for his death, and soon we were whirling away, a and this fact has been, and ever will be, noisy, hilarious crew. All went well un- a cloud overshadowing my life.
til we neared the city limits, when, ahead In time I returned to the city. The and a little to our left, we saw a long train of cars approaching. One of the most reckless of our load called to the driver: "Don't step, you can easily make the crossing," and the driver, who had also imbibed too freely, rashly attempted to cross. Our ears were filled with a terrific screech from the engine.

strange place. Not a familiar object met my poor old parents anxious. my gaze. In an instant my mother, and another in the garb of a nurse, approached my bed. These I plied with "Where am I? What has questions. happened?" Soon my mother was weeping, but her tears seemed more from joy that grief. I was told that I was very ill; that I must be quiet and not talk until I was stronger. Then my father came and stood beside me, looking very happy, as I thought. Again I succumbed to weakness and fell asleep.

It took weeks, as I have been told, for to gather strength sufficient to talk. Finally I insisted upon an explanation of the mystery that surroundwith others, had collided with a train and received serious injuries.

By degrees the past came to me. At arrested me in my downward career. last I thought of Charlie. Asking about him I was told that he, too, was injured. poor Charlie had been instantly killed in the friends at home think of it?" the collision; that his body had been me was so great that a relapse seemed I will!" imminent, but realizing that for my hospital to my home, where I was nursed the most alluring temptation.

AUTUMN.

BY MILDRED M. NORTH.

The morning light comes later now each

The spider-webs hang dew-gemmed everywhere,
Like silver nets and diamonds, and the air
Is crisp and sweet with odors Autumn yields:

Scent of the corn leaves browning in the sends,

fields, Of spicy wild grapes growing black and And falling leaves that rustle 'neath the of squirrel or chipmunk, or of shy wood mouse, In search of food to store their winter

house Against the time of cold; for well they soon will come the winter and the snow. That

The yellow sunbeams of the noonday

gray-brown, where waved the ily.

orchard trees the ruddy

adds a beauty days.

eyes.

Broad bands of gold and rose, like firelight's gleam,

Shine like another sunset on the stream.

But through the air, grown warm 'neath

smote me, telling me I was committing by loving hands and at length regained

On my first meeting with Charlie's parents I was overwhelmed with grief The day was spent in playing games, and remorse. I reasoned that, dearly as boat riding, singing, dancing and other he loved me, had I taken a decided stand trifling amusements. A lunch was served, and withdrawn from our associations I to which were added wine, beer and might have persuaded Charlie to have other liquors of which each and all par- gone with me and his terrible fate would Toward night our driver informed have been averted. I felt that, to a great

merchant again took me into his employ, but, I assure you, all connection with the club was severed. I was resolved to break from all contaminating influences and to be a man. Some members of that club came to a disgraceful end and several of them I have lost trace of altogether. My letters home were frequent, When I regained consciousness and frank and honest; nor was there to be looked about I was upon a cot in a read between the lines anything to make

Staying for several years with the merchant, I was promoted from time to time as my qualifications would justify. After accumulating a modest fund I came to this quiet town, where Charlie and I had last attended school, and established a mercantile business of my own on a small scale. Trade slowly but steadily increased until now I have an income more than sufficient to supply our needs. At the age of twenty-seven I married Charlie's youngest sister, who has ever been a helpmeet to me, and has faithfully filled the place of mother to you, my sister's son.

Fortune has favored my efforts, but, ed me. I was told that while riding, I, glancing retrospectively, I dare not think what might have been my fate had not the severest interposition of Providence

And now, my dear Jamie, let me admonish you to resist the first temptation This did not satisfy me for I felt that if to do wrong, for in this lies your safety. it were possible he would visit me. When Shun all appearances of evil and, before it became evident that the facts could no participating in any questionable amuselonger be withheld I was informed that ment, first ask yourself, "What would

My uncle ceased speaking and, with taken to his heartbroken parents and miostened eyes, while warmly grasping buried near his old home. The shock to his hand, I replied: "God helping me,

Time flies. My uncle, now an old man, friends' sake I must rally, by will force, has retired from business. I have suc-I succeeded. I felt that, if possible, I cessfully practiced law as a profession must in a manner retrieve the great and have cause to be thankful for his wrong I had helped to perpetrate. As advice, his experience, as related to me, soon as advisable I was taken from the having proven a bulwark impervious to

The crickets' quick indignant sharp reply The birds' soft twitter, and the insects Are silent now the Autumn nights have

come. An owl's shrill cry sounds sharp into the

And over each low pool a mist hangs gray

That scarcely melts away until the sun Has half his journey to the zenith run.

The spider-webs hang dew-gemmed every most to cost upon the down ground.

yields:
Scent of the corn leaves browning in the fields,

That we in thought their shining gold may keep may keep under ice and snow the grasses When sleep.

AN EXPRESSED THANKSGIVING.

BY LALIA MITCHELL.

When Brother Hiram fell off the hay mow a week before Thanksgiving and they picked him up unconscious, I was dreadfully frightened. Two of the Davisons have met with a violent death and On countless leaves in sunrise colors who knows but it might run in the fam-When the doctor said he was all golden grain, right, except for the nervous shock, I Or bright with grass fresh started by the felt greatly relieved, but that did not help To vivid green. The sky is clear and out the question of what we, and in fact each of the seven living members of our

And through the orchard trees the ruddy family, would do for Thanksgiving.

hue
Of heaped-up apples shines. A butterfly,
Roused by the June-like warmth, filts
slowly by.

The state of the Hiram and I lived on the homestead Milkweed and thistledown, their work all and sister-in-law home for Thanksgiving. Milkweed and done.

On airy wings sail idly in the sun,
While floating cobwebs fill the clear dry

because they knew we were expecting because they knew we were expecting them and would be right glad to see The hills are veiled in sunlit purple haze them. Hiram's fall upset everything, That adds a beauty to these Autumn though. The doctor jabbered off some long Latin name and talked about ner-Now is the season when the sunset skies vous shock and said we were to keep him Spread their most gorgeous colors for our absolutely quiet for at least two weeks and, under no condition, must we have any company to tire or irritate him. That may not have been his exact words but it's as near as I could understand him, and after he had gone I just sat down and cried, partly over poor Hiram shut up in the best parlor bedroom for THOMAS TOOL CO., 845 Barny St., DAYTON, O.

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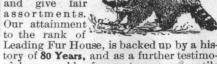
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two whole weeks, and partly because I knew just how disappointed the rest would be, and just a little because I did not know exactly how to write and tell them that we couldn't have them, when we hadn't even heard they were coming.

Hiram couldn't advise me. The doctor had said he must not be worried, and none of the neighbors could be depended I just had to think out some way myself, and that without delay, for Thanksgiving was already so near that I had my mince meat all chopped and ready for the pies. Thinking of pies gave me an idea, and when once it was started that idea grew like a young gourd vine.

If I could not have the boys and girls home for Thanksgiving there was nothing to hinder my sending Thanksgiving to them, and when once I had made up my mind it was surprising how many things I thought of. First, I wrote to the editor of the Fayville Daily News sending him an account of Hiram's accident, with the doctor's caution that he must be kept quiet and not see any company. With my letter I enclosed twenty one-cent stamps to pay for mailing copies of the paper in which the accident news appeared to the five brothers and sisters. Having done that I felt that I had time to attend to the other part of my plan.

Out in the granary were five goodsized boxes, clean and sweet, and these I put in the kitchen, side by side, with a sheet of nice white paper in the bottom. Then I got five sacks and filled each of them with butternuts, hickory nuts and walnuts, just the kind we always have after dinner on Thanksgiving day.

That was all I could do then, and for the next two or three days I devoted myself to Hiram and thinking about my plan.

When the time came I went on with my cooking just as though we were going to have our customary big dinner, only instead of baking a big turkey I picked On the out five nice young chickens. second day before Thanksgiving they went into the oven as plump and pretty as partridges

Well, on Tuesday night I had every thing ready, mince pies and pumpkin pies, and fruit cake and salt rising bread, and everything, even to the little red and yellow chrysanthemums that I've put in the middle of the table for ten years back. After Hiram was asleep, so that he wouldn't be likely to want me for anything, I began my packing. Each box was exactly like the other four and when I had finished them there wasn't three ounces of difference in the weight of

But I forgot to tell you what went into them. You see my idea was that if couldn't have the folks home for Thanks-giving I'd send Thanksgiving to them, and when those boxes were ready to nail up there was a good big Thanksgiving dinner in every one of them. The turnips weren't cooked, nor the carrots and parsnips, but everything else was, and then there was a little jar of marmalade, and a pint can of pickles, and apples, and doughnuts, and cranberry jelly. I knew right well just how pleased each of them would be when the expressman walked in on the day before Thanksgiving, or may be on the very morning of the big day, with a package that they'd recognize by my handwriting.

It wasn't long until the letters began to come to me, and you may not believe it but from the way they wrote you'd think a boxed up Thanksgiving was better than the old-fashioned kind. course, I knew it wasn't, and that they missed the visiting and story telling, for I couldn't put that in a box, but so long as Hiram was sick and we couldn't all be at home, I was right glad I had happened to have that idea, and I guess there were seven of us who felt that way, for when I told Hiram about my boxes, on Thanks riving morning, he smiled the cheerful lest smile I had seen since he was hurt, and said, "Well, well, this isn't such a dreadful bad Thanksgiving after all, if I did do the best I could to spoil it."

A 24-page, neatly printed catalog, issued by the American Wagon Co., 112 West Adams St., Chicago, Ill., has been received, at this office. This booklet, by word and picture, gives a very clear and comprehensive idea of the Melrose Convertible Wagon Bed, which is designed to accommodate itself to the multitude of purposes that the farmer needs such a structure for. The flexibility of this box, which is easily adjusted from a common wagon bed to a hay rack, a stock bed, a poultry bed, a cord wood be wolf persented by a cord wood by wolf persented from reading the above catalog, which will be sent free to all readers of the Michigan Farmer upon application to the above address.

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Size, and power, and ease of riding

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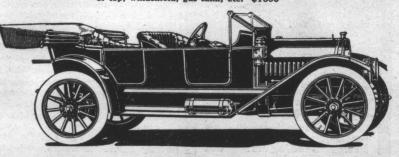
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Address all communications relative to the organization of new Clubs to Mrs. C P. Johnson, Metamora, Mich.

Associational Motto-

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

CLUB SECRETARIES ATTENTION.

A copy of the program for the annual also been mailed to the secretary of each tary of every local Farmers' Club, those most who do not receive them should notify meeting who will be elected this month, zation. and the report blanks should be filled out and returned to the secretary at once, in order that she may have as complete data as possible for the preparation of her annual report to be submitted at the associational meeting. Send these reports or any correspondence regarding them, addressed to Associational Secretary, Mrs. C. P. Johnson, Metamora,

THE YEARLY PROGRAM.

The latest of the yearly programs of the local Farmers' Clubs to come to the editor's desk is that of the Essex Farmers' Club, of Clinton county, the same being the program of the fiscal years of 1911-12, which begins with the October meeting of the year. This is one of the most elaborate programs which we have seen gotten out in any local Club. It is neatly bound in a colored paper cover, the cover page bearing the name and location of the Club, the year for which the program serves, the dates of the meetings, which are held on the second Wednesday of each month, and the hour of meeting, which is 10:30 a. m. The title page of the booklet is a duplicate of the cover and the page following it contains simply the motto and sentiment of the State Association which were adopted at the suggestion of the Ex-Associational President, J. T. Daniells, who is a member and also an ex-president of the Essex Club. This motto and sentiment is familiar to every reader of this department and will be found at the head of our rarmers' Club column in each issue, when space will permit.

The next page of the booklet contains a list of the ex-presidents of the Club, which number twelve, and the years for which each has served. The next page is devoted to the list of present officials of the Club, including the members of standing committees. The several meetings of the Club are given each a page in the booklet, the assignments being complete in each case except for the musical numbers. The farms of the members are named and name of the farm is given in connection with that of the host and hostess, at the head of each program. The order of business which is followed at the meetings is repeated on each page so that each program is complete for the meeting for which it serves.

Two questions are discussed at praccess which occurs in each case just prior conditions and spirit of the home. to the discussion of the last question, some well known author. The programs followed by a brilliant discussion which cers.

March program being of a strong temperance character. The practical topics are timely in every case and the program as a whole, would be hard to improve upon. A question box is made a feature of some of the meetings but does not appear in every program.

The year's work closes with the June meeting, the Club apparently taking a not lack of education or knowledge, for vacation from June until October, dur- the ranch woman is a cosmopolitan, often ing which period no meetings are schedmeeting of the State Association of uled. A feature of the booklet worthy Farmers' Clubs has been mailed to the of special mention is a page headed "In president of each of the local Clubs in Memoriam," the head being followed by the state. A copy of the program has an expressive verse and the names of former members who have passed to "the local Club, together with credential bourne from which no traveler returns." take away all the hard-earned fruits of blanks, report blanks, etc. If these blanks Lastly appears the constitution of the our toil, when we finally take our crops are not received promptly by the secre- Club, making this booklet one of the to market, rising often at midnight-nay, which could be devised. For it we are the associational secretary at once. It is indebted to the courtesy of Ex-Associaimportant that these blanks be in the tional President Daniells, than whom no hands of every secretary at an early date other member of this or any other local as the credential blanks will be needed Farmers' Club has been more constantly the delegates to the associational devoted to the work of the state organi-

CLUB FAIRS.

Rives and East Tompkins Club.

Rives and East Tompkins Club.

The Rives and East Tompkins Farmers' Club met at the Maccabee hall in Rives, Wednesday, Oct. 25, to hold its annual fair. There was a good attendance, about 150 being present. After dinner had been served an excellent Club program was rendered in the hall upstairs. It was opened by singing the Club's favorite song, "America," followed by prayer by Rev. Reynolds. Mr. Arthur Perrine gave an interesting talk on cows and the method of testing them. The school children favored us with a song of the country fair. A recitation by Miss Alice Boon, and a duet by the Misses Alice and Lois Severence were much enjoyed. Mrs. James Wood, Mrs. Barber and Mrs. Ina Stringham gave interesting readings, and throughout the program was interspersed musical numbers by the Misses Anna Davey, Rosa Foster and Netta Styles, and songs by Mrs. Susie Smith and Miss Margie Mann. The display of produce from garden and field was splendid. considering the year The display of produce from garden and field was splendid, considering the year we have had. We were pleased to see so many ladies from Jackson present and we hope their words of commendation will inspire the Club to greater efforts next year.—Ina Stringham, Cor. Sec.

China Farmers' Club.
The annual fair of the China Farmers' China Farmers' Club.
The annual fair of the China Farmers' Club, of St. Clair county, was held at the home of Mr. and Mrs. Henry Schroeppel, on October 18. There was a large exhibit of fruit and vegetables, including many varieties of apples, peaches, pears, potatoes, beets, watermelons, cabbage, parsnips, carrots, etc. There was also a good exhibit of different varieties of corn and other farm products, while beans, hickory nuts, sunflowers, etc., were in evidence. There was a poultry exhibit as well, while the ladies had a varied exhibit of jellies, pickles, etc., and the fancy work department was not neglected.

In the line of curios there were on exhibit a home-made linen coat and vest which were worn by one of the members 45 years ago in his boyhood days; a baby's christening robe 32 years old, a silver spoon brought from Germany 75 years ago and samplers made over 100 years ago. Altogether the fair was a most successful event and will doubtless be continued as a special feature by this Club.

GRANGE

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

THE "CONSUMER'S DOLLAR" GOT INTO A WOMAN'S MEETING.

It was my good fortune last month to sit as a delegate from the Grange in the tically every meeting and these are ap- First International Congress of Farm parently chosen with more than ordinary Women, assembled in Colorado Springs, care. Some are practical and some are Col. This body of 222 women, representof a more ethical nature, thus lending ing 25 states and Canada, was auxiliary variety to the discussions. The reutine to the Sixth International Dry-Farming business is gotten through and one ques-tion is usually discussed before the din-ner hour. Another feature of the meet-try church. Its aim was to help the farm ing, which is apparently original with woman to find herself among women as meeting. this Club and exceptional to the general an active, real part of the women's world practice of such organizations, is a re- that is seeking whatever will better the

conditions and spirit of the home.

This is not the time or place to even outline the results of this significant gathering of women. One incident only ways which makes this an instant endentertaining feature of the Each program is pleasantly ed with literary and musical an arrangement to make the conditions and spirit of the home.

This is not the time or place to even outline the results of this significant gathering of women. One incident only shall be mentioned here. It was an incident only that, to many people, gave the pith of the third days' meeting and one that, to many people, gave the pith of the farm problem. We had listened to many an arrangement to make the carefully prepared papers upon devices nore entertaining. At the botter education of officers.

This is not the time or place to even outline the results of this significant gathering of women. One incident only shall be mentioned here. It was an incident only that, to many people, gave the pith of the Hull, speaker.

Clinton Co., with Wickham Grange, at Twining, Friday, Nov. 28. State Master Hull, speaker.

Clinton Co., with Olive Grange, Wednesday, Dec. 6. Election of officers.

Lenawee Co., at Adrian, Thursday, Dec. 7. Annual meeting and election of officers. which occurs at or near the end of the outline the results of this significant program. Roll call is responded to in a gathering of women. One incident only variety of ways which makes this an in-shall be mentioned here. It was an inci-structive and entertaining feature of the dent of the third days' meeting and one interspersed with literary and musical farm problem. We had listened to many numbers, an arrangement to make the carefully prepared papers upon devices meeting more entertaining. At the bot- for lightening work, upon better education of each page is a sentiment appropri- tional facilities for rural communities, office ate to the season of the Club meeting, and upon methods of making the farm being in every case a quotation from home more attractive. These had been

are arranged with a view of expressing involved the question as to whether the appropriate sentiments throughout, the barn or the house should first be consid-November program having special refer- ered in the economies of the farm. A ence to the Thanksgiving occasion and good many women had not yet said anything-in public. Suddenly an unpretentious small'woman in the rear of the room arose and, in quick, impassioned words,

"I have been a teacher and domestic science teacher in Missouri and came out to a Colorado ranch where I am studying farm conditions. I'm sure the trouble is a town product, and well cultured. But the trouble is money, money. When we poor ranchers who have worked on the ranch since May, in wet and cold weather, early and late, 14 hours a day, every day, fearing all the time lest the hail will take away all the hard-earned fruits of complete and useful programs sometimes starting the night beforewe are offered a pittance for our products. I have been offered five cents a dozen for corn and six cents a gallon for the beans we have weeded and watered and cultivated for three months. Now the farmer loves his wife and home, and if he had the money he would gladly furnish her a maid and good appliances; but he hasn't got it, and he never will have it until the commission man-the middleman-gets less than the lion's share. As long as such conditions exist the farmer can't make it any easier for his wife. she has no right to expect any easier lot.

As the woman ceased speaking the president chanced to declare a brief recess and immediately the little woman was surrounded, her hand shaken in eager approval by women whose feelings she had so evidently voiced and by other women to whom she had given a deeper insight into a "real farm woman's" life. When I could get near enough to ask her to write out her statement for me I discovered that she is a member of a Colorado Grange.

This is how, in the minds of some of us, the conviction was driven deeper than ever before that farmers need organizations that will take up vital, present-day difficulties and follow them to finish. This Colorado Grange-ranch woman had touched a vital, present-day JENNIE BUELL. difficulty.

CHARLEVOIX POMONA'S LAST MEET-ING OF THE YEAR.

Despite extremely bad weather, members of six subordinate Granges, of Charlevoix Co., met in Pomona session with Peninsula Grange, Nov. 2. The biennial election of officers resulted as follows: Master, William Mears, Boyne Falls; overseer, John Knudsen, East Jordan; lecturer, Walter Black, Charlevoix; steward, William Steenberg, East Jordan; ssistant steward, Arthur Gaunt, East Jordan; chaplain, Viola Heller, East Jordan; chaplain, Viola Heller, East Jordan; creasurer, Henry Black, Sr., Charlevoix; secretary, Leo D. Willson, Boyne City; gate keeper, Fred Heller, East Jordan; Pomona, Blanche Wallace, Bay Shore; Flora, Emma Todd, East Jordan; lady assistant steward, Fannie Knudsen; East Jordan; member executive committee, Nat Burns, Charlevoix; Pomona delegates to Michigan State Grange, Mr. and Mrs. Martin Ruhling, East Jordan.

In the evening all officers elect were installed, R. A. Brintnall acting as installing officer. It was decided to place the building fund at interest until time to commence work on the hall next year. The committees appointed returned favorable reports regarding the general condition of the Grange in the county. Harmony was declared the banner Grange for the third quarter. Two applicants for the fifth degree were duly obligated and instructed. Having declined re-election, the retiring secretary, R. A. Brintnall, was accorded a unanimous vote of thanks for the manner in which his past service had been rendered. The next meeting will be held with Rock Elm Grange, in February.—R. A. B.

Clinton Pomona held a successful meeting with South Riley Grange Nov. 8. The

Clinton Pomona held a successful meeting with South Riley Grange Nov. 8. The annual fifth degree meeting will be held

COMING EVENTS.

officers Kent Co., in Court House, Grand Rapids, Wednesday, Dec. 6, at 1:00 p. m. Fifth degree session and election of offi-

Makes a Bad Cough Vanish Quickly—or Money Back

The Quickest, Surest Cough Remedy You Ever Used. Family Supply for 50c. Saves You \$2.

You have never used anything which takes hold of a bad cough and conquers it so quickly as Pinex Cough Syrup. Gives almost instant relief and usually stops the most obstinate, deep-seated cough in 24 hours. Guaranteed to give prompt and positive results even in croup and whooping cough.

ing cough.

Pinex is a special and highly concentrated compound of Norway White Pine extract, rich in guaiacol and other healing pine elements. A 50 cent bottle makes a pint—a family supply—of the best cough remedy that money can buy, at a saving of \$2. Simply mix with home-made sugar syrup or strained honey, in a pint bottle, and it is ready for use. Easily prepared in 5 minutes—directions in package.

Children like Pinex Cough Syrup—it tastes good, and is a prompt, safe remedy for old or young. Stimulates the appetite tures. A handy household medicine for and is slightly laxative—both good feahoarseness, asthma, bronchitis, etc., and unusually effective for incipient lung troubles. Used in more homes in the U.S. and Canada than any other cough remedy.

remedy.

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DETROIT WHOLESALE MARKETS.

November 15, 1911.

Grains and Seeds.

Wheat.—The wheat deal remains about steady with the closing figures of a week ago. There are a few strong features in the market at home, but the crop of Argentine which is estimated to be 50,000,000 bushels more than the bumper yield of 1907, has overcome the bullish feature at home and held the market steady. In the Canadian northwest conditions are discouraging to the bears since frost damaged much of the crop, and now fields that would have yielded millions of bushels are completely covered with snow. The milling demand has quieted, which has slightly weakened cash deals. Receipts in the southwest have been very small. All things considered, it seems that the market is on a basis that might send prices in either direction. One year Wheat .- The wheat deal remains about send prices in either direction. One year ago the price for No. 2 red wheat was 94½c per bu. Quotations for the past week are:

No. 2	No. 1		
Red.	White.	Dec.	May.
Thursday961/2	.931/2	.98	\$1.0234
Friday961/4	.931/4	.973/4	1.021/2
Saturday951/4	.921/4	.963/4	1.011/2
Monday951/2	.921/2	.97	1.0134
Tuesday951/2	.921/2	.97	1.013/4
Wednesday96	.93	.971/2	1.021/4
DO SERVICIO DE PROPERTO DE LA CONTRACTICA DEL CONTRACTICA DE LA CONTRACTICA DE LA CONTRACTICA DE LA CONTRACTICA DEL CONTRACTICA DE LA CONTRACTICA DE LA CONTRACTICA DE LA CONTRACTICA DE LA CONTRACTICA DEL CONTRACTICA DE LA CONTRACTICA DEL CONTRACTICA DE LA CONTRACTICA DEL CONTRACTICA DE LA CONTRACTICA DE LA CONTRACTICA DE LA CONTRACTICA DE LA CONTRACTICA DEL CO	The state of the s	20 13 13 130	100

Corn.—While corn values have fluctuated the past two weeks, it now rests on practically the same basis as two weeks ago, with the undertone slightly weaker However, there is promise of strength in the fact that small receipts are coming to the large markets and country offerings are very light, also the stocks in Chicago and other places are small. One year ago the price for No. 3 corn was 52½c per bu. Quotations for the past week are as follows:

		No. 3	No. 3
		Corn.	Yellow.
Thursday		75	751/2
Friday			75
Saturday		741/2	75
Monday		741/2	75
Tuesday			76
Wednesday			76
OatsThis	grain has	advanced	a half

Standa	White.
Thursday 4	9 481/2
Friday 4	91/2 49
Saturday 4	91/2 49
Monday 4	91/2 49
Tuesday 5	0 491/2
Wednesday 5	0 49½
: 10 March 1985 - 1985 - 1985 - 1985 - 1985 - 1985 - 1985 - 1985 - 1985 - 1985 - 1985 - 1985 - 1985 - 1985 - 1	

Beans.—December beans have advanced while cash and November are a cent lower. Complaints of moisture in the offerings still prevail; however, the farther away the market gets from threshing season the greater will be the improvement of the offerings so far as moisture is concerned. Reports continue to verify the extent of damage done to the crop. Quotations are as follows:

Oct. Dec.

												Oct.			Dec.
Thursday												\$2.27			\$2.27
Friday .												2.27			2.27
Saturday												2.25			2.25
Monday												2.27			2.28
Tuesday												2.27		1	2.28
Wednesda	ıy											2.28			2.30
	1				4	_						1 7 7	2		

Clover Seed.—March seed and prime spot are off 5c. The market is firm and active at the quotations given below:

	Prime Spot.	March.	Alsike.
Thursday .	\$12.40	\$12.50	\$10.50
Friday	12.35	12.45	10.50
Saturday	12.35	12.45	10.50
Monday	12.35	12.45	10.50
Tuesday	12.35	12.45	10.50
Wednesday	12.35	12.45	10.50

Timothy Seed.—There is no change in the nominal price for this seed, which is \$7.20 per bu.

Rye.—The rye market is dull and quotations are 4c below those of last week, cash No 2 now ruling at 93c per bu.

4.75 Ordinary Patent

Feed.—All grades steady with last week Carlot prices on track are: Bran, \$27 per ton; coarse middlings, \$29; fine middlings \$32; cracked corn, \$30; coarse corn meal,

\$32; cracked corn, \$30; coarse corn mea; \$30; corn and oat chop, \$28 per ton. Hay and Straw.—Rye straw is firmer and mixed hay is higher. Other grades firm. Quotations are: No. 1 timothy,

the support of large stocks of storage goods the market is firm at last week's figures with a strong undertone. Quo-tations are: Extra creamery, 32c; firsts, do., 31c; dairy, 21c; packing stock, 20c

do., 31c; dairy, 21c; packing stock, 20c per lb.

Eggs.—Another advance resulted from the continued broad demand and the constantly narrowing supply of eggs with every prospect that further upward changes in price will follow. Fresh receipts, case count, cases included, are now quoted at 27c per dozen.

Poultry.—All grades and kinds of poultry are steady except chickens which, because of the heavy offerings have suffered a decline. Dealers will be able to stock up for the holiday at low prices. Prices are: Live—Turkeys, 14@15c; geese 10@11c; ducks, 12@13c; young ducks, 14c; spring chickens, 9@19c; No. 2 chickens, 8c per lb; hens, 9@94c.

Cheese.—Michigan old, 15@17½c; Michigan, late, 15½@17c; York state, new, 16@17c; Swiss, domestic block, 17@20c; cream brick, 15@16c; limburger, 14@15c; veal.—Market steady. Fancy, 10@11c; choice, 8@9c per lb.

Fruits and Vegetables.

Caphage —Steady Selling at \$150@

Fruits and Vegetables.
Cabbage.—Steady. Selling at \$1.50@
75 per bbl, for home-grown.
Onions.—Steady; 80@90c per bu.
Pears.—75c@1 per bu for average of-

Apples.—There is an improvement in the apple deal and prices rule higher for the more popular varieties. Average offerings are going at 50c@\$1 per bushel; Snows are selling at \$3.50@4 per barrel.

OTHER MARKETS.

Grand Rapids.

Grand Rapids.

The bean market continues quiet, with white beans worth \$2.05@2.25 and red kidneys \$2.50. Dealers estimate that 25 to 50 per cent of the crop this year has suffered damage from rains. Potatoes are worth 55@60c at up-state loading points and buyers say that this price is too high. The movement out of the state has been heavy but this has been checked now by the colder weather. Not all the potatoes are out of the ground yet, owing to the sudden cold snap. Grain prices are as follows: No. 2 red wheat, 90c; new corn, 58c; old corn, 79c; rye, 83c; oats, 50c; buckwheat, 75c.

Beans.-Offerings of pea

Beans.—Offerings of pea beans are heavy and prices show a sharp decline. Red kidneys are slightly higher but the market generally has a weak undertone. Choice hand-picked pea beans quoted at \$2.33 per bu; prime, \$2.26; red kidneys, \$3.40 per bu.

Hay and Straw.—Hay firm; timothy 50c to \$1 higher. Straw unchanged. Quotations: Choice timothy, \$23@24 per ton; do., No. 1 \$21@22; do., No. 2 and No. 1 mixed, \$19.50@20; do., No. 3 and No. 2 mixed, \$14.50@18.50; clover, \$15@.17; do., No. 2 and no grade, \$8@13; rye straw, \$9.50@10.50; oat straw, \$9.99.50 per ton; wheat straw, \$7@8 per ton.

New York.

Butter.—Higher and steady at the advance. Creamery specials are quoted at 24½c per lb; extras, 33½c; firsts, 31@ 32½c; seconds, 28@30c; thirds, 25@27c.

32½c; seconds, 28@30c; thirds, 25@27c. per lb.

Eggs.—About steady at a general advance of 1@2c. Fresh gathered extras, 37@39c; extra, firsts, 34@36c; seconds, 28@30c; western gathered whites, 33@40c per dozen.

Poultry.—Live.—Prices rule slightly lower. Western chickens, 10½@11½c; fowls, 10@11½c; trukeys, 14@16c. Dressed.—About steady. Turkeys, 10@21c; fowls, 7@16½c; western chickens, 7@16c per lb.

Boston.

Wool.—The amount of business was smaller last week than in the preceding week. However, the market continues strong with prices favorable to the sellers. The fleece trade continues to be the strong feature of the market, although territory stock is receiving considerable attention. Michigan fleeces are in moderate demand. Following are the leading quotations for domestic fleeces: Ohlo and Pennsylvania fleeces—Delaine washed, 30,31c; XX, 28c; ½-blood combing, 250,25½; 24-blood combing, 24-blood combing, 24-blood combing, 250,25½; 34-blood combing, 240,25c; delaine unwashed, 25c. fine unfinished, 20,21c. Michigan, Wisconsin and New York fleeces—Fine unwashed, 19,020; delaine unwashed, 23,023½; 14-blood unwashed, 24½c. Kentucky, Indiana and Missouri—36-blood, 24c; 14-blood, 24c. Wool -The amount husiness ' was and mixed hay is higher. Other grades firm. Quotations are: No. 1 timothy, \$20@21; No. 2 timothy, \$19@20; clover, mixed, \$18@20; rye straw, \$9.50@10; wheat and out straw, \$9 per ton.

Potatoes.—The national crop report indicates the yield for this year to be 281, 735,000 bu., as compared with a yield in 1910 of 338,811,000 bu., and a five-year average of 304,513,000 bu. The quality of the crop is estimated to be below that of 1910. Prices have improved this past week while offerings are light. Car lots on track are quoted at 65@70c per bu. in bulk, and 75@80c in sacks.

Provisions.—Family pork, \$19@19.50; mess pork, \$16.50; medium clear, \$16@18; hams, 14½c; bacon, 12@18½c; pure lard in tierces, 9%c; kettle rendered lard, 10½c per lb.

Dairy and Poultry Products.

Butter.—There is a moderate supply of butter and since the trade is not having

THE LIVE STOCK MARKETS.

Buffalo.

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

Receipts of stock here today as follows: Cattle, 6,000 head; hogs, 17,600 head; sheep and lambs, 20,000 head; calves, 1,000 head

Cattle, 6,000 head; hogs, 17,600 head; sheep and lambs, 20,000 head; calves, 1,000 head.

With 230 loads of cattle on our market today, and 25,000 reported in Chicago, the good and prime cattle sold at about last week's prices; all others sold from 15@25c lower; and for anything below the good quality, the market was slow and draggy from start to finish, with at least 15 cars unsold at the finish.

We quote: Best 1,400 to 1,600-lb. steers \$7.75@8; good prime 1,300 to 1,400-lb. do. \$7.25@7.50; do. 1,200 to 1,300 lb. steers, \$6.50@6.75; best 1,100 to 1,200-lb. shipping steers, \$5.75@6; medium butchers steers, 1,000 to 1,100, \$5@5.50; light butcher steers, \$4.50@4.85; best fat cows, \$4.50@5; fair to good do., \$3.25@3.50; common to medium do., \$2.25@2.75; trimmers, \$1.75@2.25; best fat heifers, \$5.25@5.75; fair to good do., \$3.75@4.25; good fat heifers, \$4.50@5; stock heifers, \$3@3.50; best feeding steers, dehorned, \$4.40@4.60; common do., \$3.25@3.50; stockers, all grades, \$3@3.25; prime export bulls, \$5@5.25; best butcher bulls, \$4.25@4.65; bologna bulls, \$3.25@4; stock bulls, \$3@3.75; best milkers and springers, \$50@60; common to good do., \$2.52@3.50; stockers, all grades, \$3@3.25@4; stock bulls, \$3@3.75; best milkers and springers, \$50@60; common to good do., \$2.50@3.50; stockers, all grades, \$3@3.25; prime export bulls, \$5@5.25; best butcher bulls, \$4.25@4.65; bologna bulls, \$3.25@4; stock bulls, \$3@3.75; best milkers and springers, \$50@60; common to good do., \$2.50@3.50; stockers, all grades, \$3@3.25; prime export bulls, \$5.65.25; best milkers and springers, \$50@60; common to good do., \$2.50@3.50; stockers, all grades, \$3.60@3.25; prime export bulls, \$5.65.25; best milkers and springers, \$50@60; common to good do., \$2.50@3.50; stockers, all grades, \$3.60@3.25; prime export bulls, \$5.65.25; best milkers and springers, \$50@60; common to good do., \$2.50@3.50; stockers, all grades, \$3.60@3.25; prime export bulls, \$5.65.5.5; best milkers and springers, \$50@60; common to good do., \$2.50@3.50; stockers, all grades, \$

The sheep and lamb market was slow

The sheep and lamb market was slow today; most of the choice lambs sold at \$6.25@6.35; wethers at \$3.50@3.75. There is a good many unsold; market closing dull. Look for lower prices the balance of the week unless the runs are light.

We quote: Best spring lambs, \$6.25@6.35; cull to common do., \$4.50@5.50; wethers, \$3.50@3.75; bucks, \$2.50@2.75; yearlings, \$4@4.50; handy ewes, \$3.25@5.50; heavy ewes, \$3.25.20; cull sheep, \$1.50@2; veals, choice to extra, \$9.25@6.50; fair to good do., \$8@9; heavy calves \$4@5.

Chicago.

Chicago.

November 13, 1911.
Cattle. Hogs. Sheep.
Received today25,000 30,000 28,000
Same day last year. 27,028 26,485 58,094
Received last week. 73,286 151,492 166,776
Same week last year.87,711 108,516 158,200
The sheep and lamb market was unusually excited and 25@50c higher today, the receipts being unusually light, variously estimated at 25,000 to 28,000 head.
Top prices were: Lambs, \$6.25; yearlings \$5.15; wethers, \$4; ewes, \$3.50; feeding lambs, \$5.10. This remarkable boom will doubtless bring in greatly increased re-

lambs, \$5.10. This remarkable boom will doubtless bring in greatly increased receipts the next few days, although the range shipping season is closing, and reactions in prices may be expected.

Today's moderate Monday receipts of cattle, including about 2,500 from western ranges, made a better outlet for most offerings, and prices averaged 10@15c higher. Strictly prime beeves of the \$9.10@9.25 class were scarce and unchanged. changed.

Hogs had a quick rise of 5@10c this morning, selling largely a dime higher, with a strong demand. Few went lower than \$5.70, and the top stood at \$6.65. Hogs marketed last week averaged 203 nounds.

Hogs marketed last week averaged 203 pounds.

Butcher lots of cattle sold extremely well, and late today fat cows and heifers sold as much as 15@25c higher. A prime heifer brought \$7.

Cattle prices had quite a widening out last week because of the extremely large supplies of common and medium kinds and the marked decrease in the receipts of prime heavy beeves. The best cattle in the hands of stock feeders have been largely marketed, and most of the receipts from western ranges are ordinary in quality, as is usual near the close of the shipping season. Recent weeks have seen unusual variations in the marketing of cattle, the receipts running extremely large and extremely light in volume according to how prices are ruling, and last week's big runs were due largely to the substantial rally in prices the preceding week, when receipts were very limited. The most important event was the new high record made in fancy beeves, several car loads of prime Herelimited. The most important event was the new high record made in fancy beeves, several car loads of prime Hereford and Shorthorn steers averaging 1,620 to 1,698 lbs. selling at \$9.25 on Wednesday. On the other hand, the general run of cattle had to go lower, and the poorer lots of grassy steers sold at \$4.25@4.75. A large share of the fed steers went at \$5.50@8.25, with less trading above \$8.25 than of late, and very good steers sold between \$7 and \$8, although in the absence of any official grading different live stock commission firms naturally differ in their definition of what constitutes "good" cattle. Cows and heifers were bought for butchering at \$3.25@6.90, only a few fancy heifers selling above \$5.50, while cutters sold at \$2.60@3.20, canners at \$1.75@2.555, bulls at \$2.75@5.75 and calves at \$2.50@8.50. There was the largest traffic in stockers and feeders seen at any time this season, the former selling at \$3.05.10 and the latter at \$4.25@5.80, but not much was done above \$4.50 for stockers or above \$5.50 for feeders. Western range steers sold at \$4.50@7.40,

and milch cows sold moderately at \$30@ 70 each, being lower in price. The close of last week showed an advance of a dime for the best beef steers of heavy weights and a decline of 15@50c in others.

dime for the best beef steers of heavy weights and a decline of 15@50c in others.

Hogs are moving to this and other western markets freely most of the time, and supplies show substantial gains over corresponding periods for the last two years, when the hog supplies in the corn belt were unusually light. The number of hogs slaughtered in the country for 1911 shows a big gain over either of the last two years, but trade requirements are on a large scale, and there is no surplus above consumptive wants. The eastern shipping demand last week was much smaller than of late, and this resulted in some weakness in prices, but the best hogs had a good outlet, and had quick recoveries after declines, as they comprised a comparatively small part of the daily runs. With such an unusually large marketing week after week of little pigs shipped from districts where swine plague prevails, the future supply of matured hogs is being cut into seriously, and even at the present time there are more buying orders for prime hogs weighing from 210 to 312 pounds than can be filled readily, the result being that these are the best sellers, going at a good premium over the best light bacon grades. The pigs are extremely bad sellers, the lighter ones selling absurdly low. Looking ahead, it may be said that prospects appear to be extremely favorable for owners of hogs, cattle and sheep. When the week closed hogs sold a little higher than a week ago, the extreme range being \$5.50@6.60, stags going at \$6.40. Sheep and lambs have been marketed for another week with extremely large freedow feeders in the country account.

lected pigs at \$5.10@5.50 and boars at \$2.75@3.25. Light hogs brought \$5.50@6.40.

Sheep and lambs have been marketed for another week with extremely large freedom, feeders in the country around Chicago shipping liberally, while the ranges were crowding in their last shipments, these being much poorer in quality than a few weeks ago. While there was a fairly active local and shipping demand prices declined under the large offerings, prices for feeders showing, as usual, the least weakness, for the demand was very large. The outlook for sheepmen who produce prime live muttons the coming winter is singularly favorable, as feeding lambs and sheep have been purchased at much lower prices than last year, while much less feeding will be carried on than a year ago. Fat lambs declined last week 50@75c, while sheep dropped 10@25c, but prime yearlings had a good advance. Lambs closed at \$3@5.75; ewes at \$1.75@3.25; wethers at \$3.35@3.75 and yearlings at \$3.85@4.75. Breeding ewes sold for \$3.15@4.25, and feeders paid \$4.35@5 for range lambs.

Horses have been in the poorest demand recently that has been reported in a long time, and all that saved the better class of horses from selling at lower prices was their scarcity. The common and medium grades have sold around \$25 per head lower than a few weeks ago in numerous instances, inferior to medium animals going at \$65@150 and the better class of drafters at \$200@250, with extra fine heavy ones quotable at \$275@325 and few offered. Wagon horses were bought at \$150@200.

LIVE STOCK NOTES.

Hogs have their ups and downs in the market, with strong weights of good barrows selling the highest and choice light bacon grades going at quite a discount, and rough, heavy sows especially low and the first to develop weakness. Of course, the liberal supplies of little pigs are in a class by themselves and can be sold only by submitting to absurdly low prices. The prevalence of swine plague this year has been unusually serious, especially in Illinois, and many farmers have lost all their pigs and sows, while many others have sold their holdings at big losses because the malady had appeared in their neighborhood. Obviously, the marketing of such large numbers of mere pigs is going to make a correspondingly smaller supply of matured hogs later on, and good prices for hogs for months to come are expected by the best judges of the situation.

With the exceptions of the last two years, hogs started off for the winter packing season November 1 at around the highest prices seen since 1902. Some months ago there were predictions by the packers that there would be \$5 hogs in the Chicago market around the first of November, but, as usual, their predictions were absurdly wide of the mark. It is believed that hogs will pay well for their board all the winter season, as the dearness of beef and mutton resulting from the short supplies of both beef cattle and sheep and lambs will naturally create an unusually large consumption of fresh pork and cured hog meats.

The demand in the Chicago market for feeding lambs has undergone an improvement owing to the fact that the

The demand in the Chicago market for feeding lambs has undergone an improvement, owing to the fact that the federal government authorities no longer Insist upon such stock being dipped be-fore shipping to feeding districts. A great many sheepmen always raise strong ob-jections to dipping at this season of the

Having Lost All My Buildings by Wind Storm WILL SELL AT PUBLIC SALE Monday, Nov. 20th, 10 A.M.

3 horses, 24 dairy cattle, 55 hogs, all farm tools including one 18 special Smalley Ensilage Cutter and a 2-pail B. L. K. Cow Milking Machine and equipment complete. Will meet all local cars on Jackson, Kalawazoo Electric Car.

G. E. LOCKWOOD, Marshall, Mich.

THIS IS THE LAST EDITION.

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

DETROIT LIVE STOCK MARKETS.

Thursday's Market.

November 16, 1911.

Cattle.

Receipts, 1,250. Market strong at last

Cattle.

Receipts, 1,250. Market strong at last week's prices.

We quote: Best steers and heifers, \$5.50@5.75; steers and heifers, 1,000 to 1,200, \$4.50@5.25; do., 800 to 1,000, \$3.75@5; steers and heifers that are fat, 500 to 700, \$3.50@4.50; choice fat cows, \$4@4.50; good fat cows, \$3.50@3.75; common cows, \$2.75@2; canners, \$1.50@2.50; choice heavy bulls, \$4.00.3.75; stock bulls, \$2.50 @3.50; choice feeding steers, 800 to 1,000, \$4.25@4.50; fair teeding steers, 800 to 1,000, \$4.25@4.50; fair feeding steers, 800 to 1,000, \$3.50@4; choice stockers, 500 to 700, \$3.50@4; choice stockers, 500 to 700, \$3.50@4; fair stockers, 500 to 700, \$3.50@6, \$1.50 man, \$2.50@3; milkers, large, young, medium age, \$40@55; common milkers, \$20@35.

Bishop, B. & H. sold Mich. B. Co. 14 butchers av 675 at \$3.50; to Schlischer 15 do av 571 at \$3, 7 do av 736 at \$3.15; to Hammond, S. & Co. 7 do av 820 at \$3.50, 7 canners av 800 at \$2.50, 1 heifer weighing 960 at \$5; to Parker, W. & Co. 4 cows av 1.035 at \$3, 3 do av 960 at \$2.50, 10 do av 868 at \$3, 11 do av 884 at \$3.10, 10 do av 868 at \$3, 11 do av 884 at \$3.10 Bresnahan 9 cañners av 916 at \$2.50, 12 do av 860 at \$2.35, 10 stockers av 630 at \$3.35, 3 cows av 950 at \$2.50, 2 do av 870 at \$2.50; to Hammond, S. & Co. 2 bulls av 1,255 at \$3.75; to Newton B. Co. 13 butchers av 903 at \$3.75; to Newton B. Co. 13 butchers av 903 at \$3.75; to Newton B. Co. 13 butchers av 903 at \$3.75; to Newton B. Co. 13 butchers av 960 at \$2.55, 1 do av 758 at \$3.25; to Newton B. Co. 16 cows av 812 at \$2.55; to Sullivan P. Co. 16 cows av 812 at \$2.55; to Sullivan P. Co. 16 cows av 812 at \$2.55; to Sullivan P. Co. 16 cows av 812 at \$2.55; to Sullivan P. Co. 16 cows av 812 at \$2.55; to Sullivan P. Co. 16 cows av 812 at \$2.55; to Erban Bros. 11 butchers av 584 at \$3.50; to Hammond Scanners av 800 at \$4.25; to Chapman 16 feeders av 800 at \$4.25; to Chapman 16 feeders av 800 at \$2.75; to Bresnahan 5 canners

Brisnahan 5 canners av 1,036 at \$3.5 to 52;; to Brban Bros. 11 butchers av 584 at \$3.50; to Mich. B. Co. 11 do av 644 at \$3.50; to Mich. B. Co. 11 do av 644 at \$3.50; to Mich. B. Co. 11 do av 644 st \$3.50; to Mich. B. Co. 12 do av 932 at \$4.75, 16 do av 936 at \$4.50, 10 do a

Johnson sold Thompson Bros. 6 butchers av 746 at \$3.75.
Lowenstein sold Mich. B. Co. 6 cows av 1,080 at \$4, 2 do av 1,030 at \$3.50.

Veal Calves.

Receipts, 385. Market steady at last week's opening prices. Best, \$8@8.75; others, \$4@7.50; milch cows and springers

steady.

Spicer & R. sold Mich. B. Co. 5 av 125 at \$8.25, 1 weighing 100 at \$6.50, 18 av 125 at \$7.75, 19 av 135 at \$7.75.

Duelle sold Burnstine 21 av 140 at \$8.25, 1 weighing 220 at \$6.50, 1 dele sold same 7 av 150 at \$8.25, Haley & M. sold Sullivan P. Co. 1 weighing 200 at \$3.50, 4 av 140 at \$8, 1

Sheep and Lambs.

Receipts, 7,210. Market steady with Wednesday's close; 10@15c lower than last week. Best lambs, \$5@5.15; fair do.,

Wednesday's close; 10@15c lower than last week. Best lambs, \$5@5.15; fair do., \$4@4.75; light to common lambs, \$3@3.85; fair to good sheep, \$2.50@3; culls and common, \$1.50@2.25.

Spicer & R. sold Mich. B. Co. 69 lambs av 74 at \$5.30, 23 do av 65 at \$5.15, 33 sheep av 85 at \$3.

Jedele sold Newton B. Co. 31 lambs av 70 at \$5.10.

Roe Com. Co. sold Hammond, S. & Co. 45 lambs av 40 at \$3.75, 66 do av 67 at \$5.25, 6 sheep av 90 at \$2, 14 do av 120 at \$2.75, 37 do av 90 at \$2.75, 89 do av 65 at \$4.50, 10 sheep av 70 at \$1.50.

Haley & M. sold Sullivan P. Co. 4 lambs av 58 at \$5, 11 do av 110 at \$3; to Newton B. Co. 76 do av 73 at \$4.75, 20 do av 50 at \$3.50.

Bishop, B. & H. sold Youngs 22 sheep

B. Co. 76 do av 73 at \$4.75, 20 do av 50 at \$3.50.

Bishop, B. & H. sold Youngs 22 sheep av 90 at \$3, 34 do av 95 at \$2.50, 27 do av 88 at \$1.50, 76 do av 90 at \$2.75, 8 do av 125 at \$3, 288 lambs av 70 at \$5, 50 do av 68 at \$5.20, 15 do av 65 at \$5, 13 do av 68 at \$5.20, 15 do av 65 at \$5, 13 do av 60 at \$4.75, 51 sheep av 83 at \$2.25, 48 lambs av 65 at \$5.10; to Hammond, S. & Co. 102 do av 52 at \$3.50; to Sullivan P. Co. 3 do av 120 at \$3, 10 do av 86 at \$1.50, 50 lambs av 50 at \$3, 46 do av 50 at \$1.50, 50 lambs av 50 at \$3, 46 do av 50 at \$3, 46 sheep av 110 at \$3; to B. Hammond 128 sheep av 110 at \$3; to B. Hammond 128 sheep av 90 at \$1.25, 11 do av 90 at \$1.25, 22 do av 95 at \$2.50, 11 do av 80 at \$1.50, 6 do av 88 at \$1.25, 15 do av 90 at \$2.50; to Nagle P. Co. 579 lambs av 70 at \$5, 186 do av 60 at \$4.50, 76 do av 55 at \$3.50, 65 do av 60 at \$4, 53 do av 55 at \$4.25, 57 sheep av 100 at \$2.25; to Parker, W. & Co. 73 do av 85 at \$2.50; to Youngs 13 do av 110 at \$2.25; to Fitzpatrick Bros. 43 do av 110 at \$2.60, 16 do av 85 at \$1.50, 17 do av 115 at \$2.60.

Hogs.
Receipts, 7,030. None sold at noon; packers bidding as follows:
Range of prices: Light to good butchers, \$6.30@6.40; pigs, \$5.50@5.60; light yorkers, \$6.15@6.25.

yorkers, \$6.15@6.25.

Bishop, B. & H. sold Parker, W. & Co. 4,885 av 180 at \$6.35, 1,130 av 180 at \$6.30, \$50 av 170 at \$6.25, 515 av 150 at \$6.15.

Roe Com. Co. sold Sullivan P. Co. 225 av 205 at \$6.40, 430 av 190 at \$6.35, 320 av 180 at \$6.30, 255 av 180 at \$6.25.

Haley & M. sold Hammond, S. & Co. 520 av 200 at \$6.35, 250 av 160 at \$6.30.

Spicer & R. sold same 1,115 av 200 at \$6.35, 250 av 160 at \$6.25.

or get up without help. When down the legs move fairly well, and when up it can walk and seems to have fairly good appetite. I thought sheep ticks might be causing weakness, but killed them with dip, and lamb is no better. G. H., Fair Grove, Mich—Lamb suffers from spinal congestion, producing partial loss of power, and may never fully recover. Fairly good results follow keeping the animal warm, bowels open, kidneys active and giving 8 grs. powdered nux vomica at a dose in soft feed three times a day. This is not a large dose of powdered nux vomica, but it may be too much for your lamb unless it is fairly good size for its age. A dose of ground nux vomica for a sheep is from 10 to 40 grains.

Indigestion—Piles.—Spring pig suffered from piles during summer and some two months ago seemed to bloat considerably, then have diarrhoea. This pig has been somewhat out of health for past 60 days. O. A. M., Green Spring, O.—Perhaps a

weighing 170 at \$6, 3 av 150 at \$8, 2 av 170 at \$8.

Roe Com. Co. sold Hammond, S. & Co. 1 weighing 150 at \$6.50, 4 av 140 at \$8.25; to Sullivan P. Co. 2 av 145 at \$6.75; to Hammond, S. & Co. 3 av 150 at \$8.25, 5 av 160 at \$8.50; to Sullivan P. Co. 13 av 135 at \$8.

Bishcp, B. & H. sold Parker, W. & Co. 2 av 165 at \$8.50, 1 weighing 290 at \$6, 9 av 155 at \$8.50; to Mich. B. Co. 11 av 155 at \$8.25, 6 av 130 at \$7.50, 7 av 135 at \$8.50; to Mich. B. Co. 11 av 155 at \$8.25, 3 av 130 at \$8, 3 av 135 at \$8; to Newton B. Co. 4 av 140 at \$6.50; to Rattkowsky 3 av 275 at \$8.75, 2 av 280 at \$5; to Sullivan P. Co. 2 av 105 at \$6.50, 5 av 150 at \$8.50.

Sheep and Lambs. and charcoal to such an animal.

Impure Blood.—One year ago I bought a 12-year-old horse that had had an attack of farcy. He has remained in good condition since I have owned him until six weeks ago. He now has several blotches that fluid oozes from. C. H. F., Bellaire, Mich.—Your horse suffers from blood impurities, not farcy or glanders. Apply equal parts oxide of zinc, powdered alum, boracic acid and flower of sulphur to sore parts twice daily. Give him a dessertspoonful of Donovan's solution at a dose in feed three times a day for not less than 30 days.

Preventing Milk Fever.—What can be

for not less than 30 days.

Preventing Milk Fever.—What can be done to prevent cow having milk fever? I have a good cow that comes fresh next month. R. W. R., Rose City, Mich.—No deep-milking cow can be immunized against milk fever; however, by feeding her lightly, keeping her bowels open a few days before she calves, and drawing only a portion of milk from udder for a few days after she calves, she will run little risk of having parturient appolexy. You should purchase one of our milk fever outfits for giving the afr treatment which is the only known remedy for milk fever. Such an outfit costs only \$2 and with it you can give the treatment yourself. yourself.

Wound.—About three weeks ago my horse ran against a barb wire, wounding himself; he is not recovering as rapidly as I think he should. Have applied hydrogen peroxide, also equal parts boric acid and air-slaked lime. W. F. P., Delano, Cal.—After using hydrogen peroxide, apply one part iodoform, one part powdered alum and six parts boric acid. A wound never heals well if the animal is kept in an unclean, badly ventilated kept in an unclean, badly ventilated

stable.

Chronic Poll Evil.—Four-year-old mare has poll evil; she has been treated by local Vet. for past four months and his, charges for services are \$50. This is, about all I care to spend for treatment unless she can be cured. I cannot tell, what he did for her, but part of treatment was given with hypodermic syringe. The wound almost healed, but soon broke out again. G. G., Orion, Mich.—Obstinate and severe cases of poll evil are often brought to my hospital and I can safely say that I have had about as much experience with such cases as any veterinarian. I am free to admit that they are usually unsatisfactory cases to treat. I often find it necessary to remove some diseased bone before a cure can be effected. If the bone is diseased the discharge will give off a very offensive odor. Strange to say, if very little is done for poll evil, most cases seem to get well in a year or two. The bacterin treatment, which has been practiced successfully in the treatment of such cases for 22 past year or two, usually gives fairly good results. This I presume your Vet. applied. If your mare does not suffer much pain, and the discharge is not offensive, she will perhaps recover slowly if you will inject fistula with hydrogen peroxide once a day. Your syringe should be clean and go to bottom of tumor. The peroxide should be dropped slowly into cavity, for it makes gas which must have vent. Ten minutes later apply one part tincture iodine in eight parts water. For a few applications I often use tincture iodine, or a strong bichloride of mercury solution; however, you had better try iodine.

Opacity of Cornea.—For past 18 months my mare has had a thin scum over eye-hall which I think was caused by thing. Chronic Poll Evil.-Four-year-old mare

tion; however, you had better try iodine. Opacity of Cornea.—For past 18 months my mare has had a thin scum over eyeball, which I think was caused by injury. She seems near-sighted. When a lantern is held near her she can see the light. T. W., Carsonville, Mich.—Give mare 1 dr. iodide potassium and 2 caspoonful Donovan's solution at a dose in feed two or three times a day; leave the eye alone. The absorbent effect of medicine will have a tendency to remove a portion of film. This treatment should be kept up for a month or two.

Chronic Stiffness.—Early last summer

be kept up for a month or two.

Chronic Stiffness.—Early last summer I bought a mare, 11 or 12 years old, that appears to be stiff in all parts of body. Exercise gives her some relief. C. G. S., Holton, Mich.—Your mare has either been foundered, has navicular disease, or else suffers from rheumatism affecting the joints. If she has either of the foot ailments, standing her in wet clay an hour or two a day, or applying wet swabs whenever she is in stable, will give some relief. For rheumatic ailment give 2 drs. salicylate of soda, 1 dr. colchicum seed and 1 dr. nitrate of potash at a dose in feed three times a day.

Barrenness—Stricture.—Cow that came

feed three times a day.

Barrenness—Stricture.—Cow that came fresh last March has not been in heat since. Have another cow the milk stream from one of whose teats scatters. C. L. L., Delta, Mich.—Giving medicine to cows with a view of stimulating the ovaries into action is not attended with satisfactory results; however, you may give her 15 grs. powdered cantharides and a table-spoonful of cayenne pepper at a dose in feed twice a day. A liberal grain allowance will also help to bring her in heat. Dilate teat opening, or use a milking tube.



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