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Gasoline Engine

farmer seems to be coming into his own, ture, but not ground as fine as for the crop of 4,000 bu, before snow came on or, in other words, getting prices that will pay the cost of producing and possibly enough over as a profit to make farming slightly resemble other industries. It seems to me to be the part of wise men to make an extra effort to get a share of these deserved prices by using every labor saving device and machine help that we can in our endeavor to raise larger crops, despite the scarcity of help, and I believe one means to this end is the gasoline engine, and for several reasons which I will try to make plain.

In the first place, if we raise good crops no one will dispute that we must have a fertile soil which must be kept up in its producing power, by the application of barnyard manure. To obtain this we must keep stock enough to consume at least all of our rough feed, such as cornstalks, hear pods, and perhaps a share or all of the clover hay raised, together with the straw eaten and used for bedcorase forage, the grain of a good corn crop and a part of the oats raised wili, when put on with a spreader, cover the in-to grind the feed for the cattle and feeding, viz., grinding the grain fed to We have fed cattle 25 years with lost us money, although in a few seasons We have also seen the merits of ground feed verified by our neighbors, and left the feeder at the end of the season disgust at the business. The cost of gasis that your feed will be fresh, as you we have owned it. need not grind a large quantity at once

The late quite general discussion of the to get sour or bitter, which cattle on full do on the farm, in the order of import- gas engine so eminently fit for a farmer advancing prices of foodstuffs and the feed are quick to detect, especially if the ance, is to husk the corn with whatever is husking, as it is ready to start when conclusions arrived at by many of the weather turns warm for a few days. And help you may happen to have. We know writers, leads one to think the reason of then you can mix your grain as you of at least two cases where two men ran is husked the engine is stopped and fuel it to be scarcity of help on the farm. please. For instance, our feeding cattle a husker the past season, shredded the consumption ceases instantly. This may or may not be the leading get but one-half as many oats as our stalks into the barn and secured a good cause, but the fact remains that the milch cows; our horses get the same mix- sized crop in good shape. We husked our quite unusual place where a gasoline en-



Feeding Barns and Cattle on the Farm of E. & H. Boyd.

ding the stock. In connection with this cows, while the calves get clear oats the shocks, except the last 100 bu., with fine, to mix with the milk and slops. ground for the next season and away to a custom mill, but it would be to draw the shocks from the field, the drum acts as a loose spool to play out the thereby insure another good crop. And more trouble than the average farmer other to unload the husked corn and rope and, with a return weight on hay car here is where the gasolene engine comes would be willing to take all through the level down the shredded fodder in the it works fine. If you want to hold the shell the corn for the sheep and lambs do occasionally, and can make it very consuming this roughage, and we believe fine, but it lacks something to make it down on you without regard to weather although it will show a slightly tremulous therein lies the road to successful cattle equal to the graham we buy. But for conditions, as the quantity of the fodder of buhrs made especially for that purpose, scarcely a miss and in none of these and we pick out each ear and see that If the morning is too damp you can work done, as the clutch will simply slip around years can we remember that they have it has no bad kernels and is strictly clean, at something else until more favorable on the drum as it is kept well oiled by then shell, fan and grind and you have a they have run very close to the danger product that in eating causes you to forget many little troubles of life.

our estimation, and we have them both without profit and with a heavy load of that work the same device. A pair of oline in grinding is but a trifle, less than gine and windmill, each about 75 feet two cents per cwt, with a good engine from the pump, and there are a great and grinder, and the time used will not many days when the windmill will not be of much greater length than that taken pump, but no days when the engine octo shell the corn as some do, or cut up cupies its regular stand and is not en- tion and there is no perceptible difference as a gasoline engine. If we don't have the ears as others do. Another point of gaged in other work that it has failed to in gasoline consumption. It takes about a great deal of standing timber the most advantage a home grinding plant holds do our pumping at call in the six years

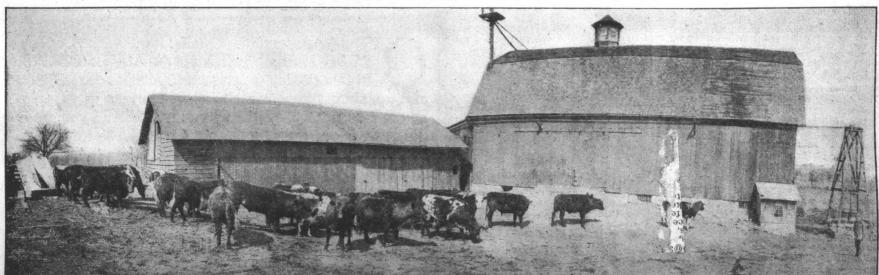
The next thing a gasoline engine will one thing above all others that makes a partly rotten rails which, cut up into the

Of three men, with an occasional fourth. course, this could be managed when taken But three men make a good gang, two stops. would be willing to take all through the level down the shredded fodder in the season. We can grind graham flour, and mow, and it makes a great deal better way than to have a regular husker come the lever forward just hard enough, and, meal for family use the mill has a set depends largely on the amount of outside all times. If the hay car strikes an obmoisture on the stalks when shredded. weather conditions prevail, whereas if an oil cup. By using a rope attached to you had a husking gang it would be a the lever one man could easily handle the difficult matter to get them to "lay off" fork and hoist also, but we did not, as ground feed verified by our neighbors, and As a pumping medium a gasoline en- on expense, and, as a consequence, the we had the extra man with nothing to do seen cases of whole grain feeding that gine is far in the lead of a windmill, in fodder would go into the mow in such a after the load was on, as we have a decondition as would certainly carry a loss to you. We used a 5 H. P. engine for so he attended to the lever. It don't triangles connect by wire cables the en- four years, but the last two seasons have seem to require very much power; a 5 used an 8 H. P. Either engine, with a H. P. engine would do it easily, and posfour-roll husker, makes a good rig, but sibly a 3 H. P. would. we think the larger engine a little the best, as it does the work with less exer- nothing will buzz wood as good and cheap five gallons per day of such time as we of us have the rail fence to move, which could put in, at a cost of 65 cents. The always leaves quite a few broken or

your load gets there, and when the load

And now we want to tell of another gine makes good on the farm and saves at least one hand and considerable time, that is in putting hay into the barn with We have a hoist horse fork or slings. connected to engine by sprocket chain, with sprocket gear or crank shaft of engine with six teeth and one on hoist with 36 teeth, although this can be varied to suit the user's idea of the speed wanted. We think this gear makes the hay move at about twice the speed a team would take it, and yet the motion is so steady and free from jerks and jars that it don't seem as fast as it really is. The hoist consists of two heavy cast iron standards or brackets about four feet apart in which rest each end of a heavy shaft, which has upon it a cast iron drum with flanges. upon which the hay rope is wound. This drum is loose on the shaft but is gripped by a powerful iron band, or clutch, which is operated by a lever which, when pressed forward slightly, causes the clutch to grip the drum, which then recows, while the calves get clear oats the shocks, except the last 100 bu., with volves and winds up the hay rope. On ground, and the hogs ground rye, very just our regular help for the summer, releasing the lever a coil spring throws it back, freeing the drum, which instantly On returning fork to load the it works fine. If you want to hold the load stationary you can do so by pressing condition, you have complete control at struction of any kind no harm will be vice for distributing the hay in the mow,

Then there is the wood to cut, and



Main Farm Barn and a Bunch of Feeding Cattle on the Farm of E. & H. Boyd, of Eaton County, Michigan.

length, make very good summer June and clipping it back with the mower ment in a pretty good engine and buzz and we believe that, one year with an

it, could wire-about 25 tons per dayand the engine did the work in good blossoms begin to turn brown, because

line shaft for grinding our sickles, axes, able weather for filling in the average that nature.

P. engine which he uses for running a cream separator and washing machine, and I believe the women have the full management of it on washing days, and the young lady of the family is capable of giving many would-be experts pointers on the art of running a gasolene engine. The next and last use we will write about making of a gasolene engine on the farm is on a sprayer for fruit trees, and I am sure many farmers who are in the habit phosphate can be profitably applied. of spraying by hand, if they could see it spray, would say it was the most helpful of any case noted in this article, as it does the work so thoroughly and so easily and run on a pressure of about 120 lbs., although we can run up to 200 lbs.; but 120 lbs. enables us to spray a pretty tall tree and do it thoroughly, standing on this pest.
the ground. We have two lines of hose My corr on the end of two bamboo tubes 10 feet in length, which gives a pretty good reach into a tree, and takes a pretty good sized orchard to keep the rig running all day. Eaton Co.

FARM NOTES.

Seeding Other Grasses in Clover.

I have a 15-acre field seeded to red clover which I am going to pasture this summer and having no pasture for next year would like information through The Farmer as to what kind of seed to sow this fall so as to have pasture next year on the same field. on the same field. Wayne Co. C. L

If this red clover pasture is a new seeding, and is not permitted to seed this ped nine cutworms. From beneath a year, a good yield of it should live over for pasture next season, although there cover the boys and I took out 67 lively considerable uncertainty as to how much of a stand will remain. It is, however, a difficult proposition to seed any vigorously, but it was soon discovered other grasses in this with any prospect that they dug only where some bit of sod in August with a disk drill, enough might hunting, not corn, but cutworms. Their be gotten into the ground to make a partial stand of this grass the following front part of the field. year, although no great result could be expected from it with the cattle pasturing up, with a two-horse cultivator, the on the field during the entire summer. However, this would be about the best that could be done, in the writer's opinion, since the prospect of having considerable of the clover live over winter to the work of the cutworm was very much make pasture next year, is a more atter- in evidence. In some places for a dising one than that of sowing any other tance of several rods every spear of corn seed this fall to make an entirely new pasture next season.

Methods of Handling the Clover Seed

Crop.

Will you please inform me as to when is the best time to cut medium red clover to insure the largest yield of seed? Two years ago we pastured with sheep, about six acres of June clover, until the tenth day of June, then clipped it off with the mowing machine. Six acres yielded 36 bushels of seed. One of my neighbors some years ago cut his clover when it was just heading out. He had a large growth but the grasshoppers and clover midge destroyed nearly all of it. I have heard of other cases of total failure of early cut clover. My way is to cut it when in full bloom for hay and if it makes a crop of seed, harvest that. Which is the most profitable way?

Hillsdale Co.

Six bushels of clover seed per acre was mature properly. Hereafter I shall sim-

a remarkably good yield for this section ply plow deep, plant deep, be careful to of the country, one which will not often use bood seed and lose no time worrying be duplicated except under very favorable over cutworms, no matter how numerous conditions. In the more northern countries may be. ties better yields of clover seed have been secured, six bushels being an ordinary not prove successful, but where the land yield and as high as 12 bushels or more is high and dry and the soil has been per acre being secured in exceptional plowed deep for years the corn will be all cases. Just why so much larger yields the better for being planted deep and of seed are secured in that section is not neither the crow, cutworm or chicken is fully explained, although some contend likely to do it any lasting injury. Even that it is on account of the greater prev- a crow gets sick of pulling where the alence of bees which are said to be es- spear of corn breaks off each time, letting sential in fertilizing the blossoms. Un- him tumble over backwards, while the doubtedly where the seed crop alone is kernel of corn never comes up where he figured on, better results will be secured can reach it. from pasturing it until about the first of Branch Co.

We have heard of cases where or clipping without pasturing as may fences which seemed to have outlived desired. However, where the value of the their usefulness on the farm were buzzed product as a whole is considered, it is up and sold in town for enough to buy a probably more profitable upon the average good new wire fence to replace them. It farm to manage it as noted in this inhas been our experience that we have quiry, taking the first crop for hay and saved enough wood by cutting up stuff on cutting the second growth for seed, pro-the farm that would better be out of the viding it fills. However, the hay crop way, to pay the interest on the invest- should be cut rather early for best results, other, more profitable results will be se-Last spring we baled out 50 tons of hay cured where the hay crop is cut during bale as fast as our hands, not expert at the early part of the blooming period than where it is allowed to stand until the the earlier the second crop come on for We belt our grindstone to a pulley on seed, the more likely it is to have favortools, etc.; also an emery wheel for grind- season, and the clover midge would be ing our plow points and other grinding of no more likely to injure it than it would be a little later. In fact, it would then One of our near neighbors has a 3 H. be later than the crop which is clipped back for seed where no attempt is made

What to Use with Poultry Manure. Please advise through The Farmer what to mix with poultry manure to make a fertilizer for farm crops.

Maine.

G. W. Abbott.

Poultry manure has about twice the fertilizing value of sheep manure. It is richer in nitrogen and potash than other manures. Absorbents, such as dry earth, or gypsum, or better yet, floats or acid

COMBATING THE CUTWORM.

Noticing an article on the cutworm for the orchardist. We use a 11/2 H. P. problem in your issue of April 30, also a treatise on the same subject in a late bulletin from the State Agricultural College, leads me to give my experience with

My corn last year was planted on a rich of 25 feet each, with two cluster nozzles clover sod. The soil being a rather loose sandy loam, the ground was plowed deep, the plow being set to run nine inches deep when the point was new. It was also planted unusually deep, because it was feared chickens would help it to come up. The corn was drilled with a two-horse corn planter.

As soon as planting was completed we went over it to pick off some stones and while doing so discovered that we had a record-breaking crop of cutworms. They must have simply swarmed over the field at night, for in the daytime everything that could hide them was liberally patrenized. A root of clover lying on the surface was given a shake and out dropsmall mullen that the plow had failed to cutworms. And so it went. The hens, that were feared, were on hand digging If timothy seed were sown or weed showed above ground, and were work did much to help matters on the

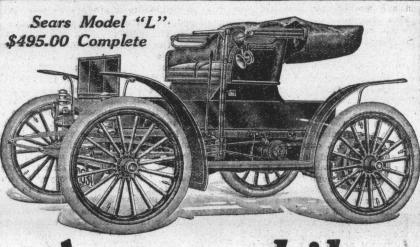
> The corn was cultivated before it came shileds being raised a bit to let loose soil on top of the row, but keep off stones and lumps. As soon as the corn was well up it was cultivated a second time, and here showing above the surface had a square top, as though the field had been pastured by sheep. But the kennel was two inches or more below the cut and the

Six bushels of clover seed per acre was mature properly. Hereafter I shall sim-

On a wet, heavy soil this plan might

O. L. DOBSON.





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TAMARACK SWAMP LAND.

I am clearing up 600 acres of tamarack swamp, which fire has been over. Soil is 2½ to 3 ft. muck, part clay bottom, part about a foot of sand, after that muck, then clay. Drainage good. R. R., runs through land, and I have my own switch on it. Am planting five acres to sugar beets and chickory this year. What crops would you advise raising? Would it be safe to put in rye or wheat and seed to timothy or clover, and which would do the best, rye or wheat, clover or timothy? Do you consider this kind of soil good? Bay Co.

After these tamarack swamps are propo-

After these tamarack swamps are properly drained, in time they make the very best kind of land for all kinds of agricultural purposes. What this land and all other swamp land needs is weathering. The air has been excluded from it so long by its being water soaked that the most of this sort of land is not in fit condition to raise crops at once. The way to improve it is to cultivate it, to stir it, to get the air in so that nature can take her natural method of getting this land in proper condition for growing all kinds of crops. If it is properly drained, and I strongly influence her habit to produce a presume it is, from Mr. A. W.'s letter, I do not see any objection to raising period. Many good milking ewes are chickory and sugar beets. The probability

INFERIOR MILKING EWES.

Ewes vary widely in ability to produce a strong flow of nutritious milk during the period they are suckling their progeny The direct reason for this evident variation in milk flow is not easy to determine. It is one of the initial laws of nature that the mother should produce sufficient nourishment for its young to induce rapid bone and flesh formation, but when a number of individuals are kept together it is self-conclusive there is a wide variation in milk production among animals of practically the same breeding and under similar care.

Inferior milking qualities in ewes may be traced to improper feeding previous to parturition. Despite the fact that a ewe may possess deep milking qualities her feed and care during pregnancy would large flow of milk during the suckling practically ruined on account of improper

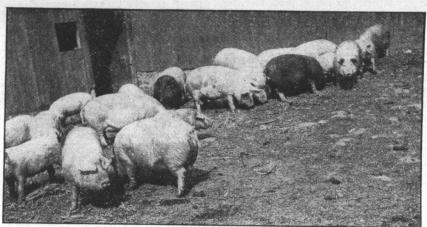


A Good Bunch of Cattle Fed by E. & H. Boyd, of Eaton County, this Year.

is that sugar beets will not be very rich feeding prior to lambing. It is not inbe told from experiments. If it is dry mer fallowed), then I do not think that there would be very much danger of putting in wheat or rye. Personally, I should prefer to put in wheat instead of rye because it is more valuable and this land ought to be rich enough to raise wheat, or anything else. Now I do not think that anybody can tell just how well a crop will do upon this land. You must experiment. It is too raw and no one knows just exactly what condition it is in until you try and see what crops will grow. Possibly the land is a little sour and needs some lime. All of these things must be learned by actual experience This kind of soil is also apt to be deficient

in sugar. Possibly the land is so raw that frequent that a flock owner on looking his they will not do well, but this can only lamb crop over in the spring notices that some ewes are nursing their young much enough, I think a crop of corn would be better than others. The ewes nursing good to put upon this land and then give lambs low in vitality and unhealthy in better than others. The ewes nursing it therough cultivation, or if it can be appearance may seem in good flesh but plowed and worked this summer (sum- yet lack in ability to produce the essential nourishment to force their young forward as rapidly as desired. Ewes that have been improperly fed prior to parturition fail to respond to proper feeding later and are generally injured permanently.

It is a well established fact that inferior milking qualities in ewes may result from over-production the first season the ewes give birth to young. I have observed instances in my flock where ewe lambs were retained from dams of excellent milking qualities and the first year produce abundance of nourishment for their young, but fail the second season. I am inclined to think that twin lambs are a serious detriment to the milking in phosphorus, and it might be a paying qualities of yearling ewes and in no few



Some of the 1910 Pork Product on the Farm of E. & H. Boyd, Eaton County,

investment to apply phosphoric acid, and instances directly responsible for undesirpossibly potash also. There isn't any doubt but what there is plenty of nitrogen if it is only available and it will become available when the land has a chance to weather. I am positive that if you would sow timothy this fall, after the land has been worked this summer, you would make a success out of a meadow. I would not sow red clover on this land, but if I wanted a mixed hay, I would sow alsike with the timothy.

COLON C. LILLIE.

A little extra work in preparing the corn ground properly will make the plant food more available and kill millions of weeds which can better be destroyed now

able conditions later. Flock owners who have a number of yearling eyes in their flock this season will do well to watch them very closely to eliminate any inclination to over-production caused from too nutritious feeding. When the pasture is abundant in spring it stimulates milk flow very strongly and unless care is exercised this may overwork the milk-producing system.

In a large number of instances inferior milking qualities in ewes is the result of hereditary influence. Ewes transmit their undesirable as well as good qualities to their progeny and when animals of inferior milking qualities are retained in the flock it may be expected that the undesir-

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Many of my customers report they have actually doubled their milk yield with Sond to half the state of the

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able characteristic will be perpetuated During the last winter the experiments through the offspring. I have carefully were carried on with three objects in noted individuals in my flock that give view; first, to make a further study of the evidence of inferior milk flow and wher- influence of corn silage in the ration; ever their ewe lambs have been retained second, a study of the influence of difthey have shown more or less of the same habit. Flock owners should carefully the ration; third, a continuation of a study study their ewes during the suckling period and note the disposition of each indi- head of steers were used in this experividual in this regard and when discov- ment, two lots of 15 each and six lots of ered an inferior milker should be disposed 10 each. In every case cattle receiving of as soon as possible.

LEO C. REYNOLDS.

ING.

Silage Favored as a Roughage for Feeding Steers.

The third annual spring meeting of the Indiana Cattle Feeders' Association was held in the new Stock Judging Pavilion at Purdue University, Lafayette, Indiana, on returned a profit of \$18.09 per steer with-April 30, 1910. The attendance was exceptionally good, considering the fact that droppings. the meeting was held during the season of the year when farmers are all busy with their crops. When President Frank DePuy, of Wabash, called the meeting to order he was greeted by about 200 cattle feeders representing practically every county in the state and also representatives from the neighbor states of Pennsylvania, Ohio, Illinois, Missouri and

Mr. William M. Jones discussed the cattle feeding work that has been conducted on his farm in co-operation with NO MARKED SHORTAGE OF CATTLE. the Indiana Experiment Station. He said that this work had demonstrated the practicability of feeding corn silage to beef cattle. Among many other things which Mr. Jones learned from this work is that in winter feeding it does not pay to give the cattle very much range. Other things being equal the smaller the feed lot the better. This experiment also dem- ply onstrates that the addition of cotton-seed meal to the ration increases the profit of the feeding operation.

outlook for the summer cattle market. ducing live stock over a vastly wider He said that in spite of the fact that the market at present is in the worst condition it has been recently, he believes that good fat cattle will bring high prices this summer. He says that the market has slumped recently because there is a heavy run of contract cattle. This run he thinks is practically over and we may look for better prices within the next few weeks.

Mr. H. P. Rusk, of the Experiment Station, reviewed the cattle feeding situation in Indiana and presented the results of the consumptive demand. True, our prothe past winter's experimental work. He duction is less than two years ago; in said there is an increasing tendency to market the crops in such a way that as what it has been the past decade.

large a per cent of the fetrility as it is

But our argument is this: There can

possible to retain will be kept on the be, in our opinion, no marked shortage in strated by the almost incessant demands ket. In the face of this demand for feedlive stock we are confronted with the fact ing conditions; first, Indiana has ceased yearling stockers for sale every spring, is for supplies. now vealing his calves. One of the most cattle situation is that this state is not The market has remained upon an exbers to be considered as a source of a continuance of receipts running, say stocker and feeder stuff for her own feed evenly, with a year ago, and our present cult to meet as the years go by and the it is true, but if the live stock industry feeders.

industry during the past winter and said returns indeed.-Clay, Robinson & Co.. that one of the best ways to guard against such emergencies is by the erection of silos. The Purdue Experiment Station has been investigating the value of silage because the high prices paid for brood sows induced many owners to sell off their as a roughage for fattening steers for several years and enough data have been obtained to justify the statement that h when properly supplemented with some nitrogenous concentrate, corn silage is one of the most economical roughages which the cattle feeder can use.

ferent proportions of the supplement in of long and short feeding periods. Ninety corn silage in the ration made more rapid and cheaper gains than those which did not receive corn silage in the ration. INDIANA CATTLE FEEDERS' MEET- the six lots of cattle which were fed 160 days, the lot receiving a ration of shelled corn, cottonseed-meal and a full allow-ance of corn silage, with what clover hay they would consume in addition to corn silage, made the most rapid gains. The average daily gain of this lot was 2.63 pounds and cost \$9.56 per hundred. They

> Where silage was included in the ration two and one-half pounds of cottonseed meal per 1,000 pounds of live weight daily proved more economical than one and one-fourth pounds of cottonseed-meal per 1,000 pounds live weight. However, this was not true where clover hay was the only roughage used. Owing to market conditions the results of the long vs. short feeding trial were in favor of the shortfed cattle.

out including the pork made from the

The predicted shortage in market supplies of cattle has thus far failed to ma-There have been two and a half million cattle at six markets thus far this year, against the same number in 1909. Chicago and other points show increases, but Kansas City's lessened supserves to even up the receipts as a whole. The cattle were in the country at the time the predictions were made, and it is but another illustration of the unre-Mr. Alexander gave a short talk on the liability of such forecasts. We are proarea; the business is in an ever increasingly large number of hands. There may be but few big growers, but there is a host of smaller men whose output in the aggregate is tremendous. Again, we have more people to feed, and even if our export business has fallen off and Argentina and Australia given us some concern in the matter of competition, we are on a plane of high prices in every department of the live stock business, as it affects fact, away below what it ought to be, and

This tendency is clearly demon- cattle receipts this year. The Southwest and Northwest grassers will be moving from the country for anything in the live freely marketward the next few months. stock line that can be fattened for mar- There may be less than a year ago, but every one knows that last year's receipts ers and the increasing tendency among were surprisingly liberal, and if we do farmers to market their crops through have less this year that does not essentially mean a famine run. Bear in mind that there has been a slow but steady the host of small rangemen. They are as decrease in the beef cattle of this state the army of Sennacherib in numbers, and during the last five years. There are two their influence is not to be regarded explanations of these seemingly conflict- lightly. They will "sweep down" in ever multiplying phalanxes and their combined to rank as a producer of beef cattle and forces will mean no inconsiderable numis turning her attention more and more to bers of cattle. There is, too, lots of nathe fattening of cattle produced else- tive grass and cattle roaming over it, and where; second, the farmer with only three summer supplies of grass-fed natives will to five cows, who formerly had a few in all probability be fairly good. So much

Now what of the market? Are we preadverse conditions in the Indiana beef dicting lower prices? Not necessarily. producing beef cattle in sufficient num- cellent basis the past four months. With Western steers, too, are not so industrial and commercial activity, and plentiful as in former years and alto- taking conditions the past four months as gether the prospect for cheap feeders is a criterion for the next eight (a not unnot very bright. He said this is a condi-reasonable hypothesis), why should values not very bright. The said in a cattle feed-decline seriously? Why should we predict ers are going to find more and more diffior expect lower prices? They may come, time is not very far distant when they will be saved from the onslaughts of over will be compelled to produce their own zealous investigators, yellow journalism and unfair criticism and calumny we ven-He discussed the influence of the scar- ture to say the course of the market will city of clover hay on the cattle feeding be such as to yield the producer very fair

Recently drivers and gaited saddlers have met with a broader demand at the Chicago stock yards, and at the late special sale buyers paid from \$300 to \$750 per head, and matched carriage pairs were taken at \$600 to \$1,000 for export to Mexico.

KEKIONGA STOCK FARM

DECATUR, IND.,

Belgian & Percheron

Stallions and Mares.



Our last Importation arrived last November, and are in a very good condition and of the VERY BEST TYPICAL DRAFT QUALITY. We have over 60 head of Stallions and Mares from two to five years for sale, and we invite prospective buyers to come to our barns where he will find THE IDEAL DRAFT HORSE, of both breeds above mentioned. Our terms are liberal, and every sale is backed up with the best of guarantees.

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FOR SALE HORSES—Auction Sale of Horses
Private Sales daily. A number of draft and farm
horses always on hand including some city mares a
little pavement sore suitable for farm work. All
horses sold are as represented or money refunded,
JOS. GEROU HORSE MARKET.
475 Graniet Ave. Detroit, Michigan.

For Sale—Horses, Cattle, Sheep, Hogs, Dogs or Poulory, nearly all breeds. Sires exchanged. Southwest Michigan Pedigreed Stock Association, R. E. Jennings, Sec., Paw Paw, Mich.



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AND SANITARY STEEL STALLS. Send for our new catalog which shows photographs of some of the most up-to-date barns in the country. You will be convinced that we make the very best there is at the lowest price.

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CATTLE.

ABERDEEN-ANGUS.

Herd headed by UNDULATA BLACKBIRD ITO 53836, one of the best sons of PRINCE ITO 50006, and Grand Champion Bull at the Detroit and Grand Rapids Fairs of 1907, 1908 and 1909. Herd consists of Ericas, Blackbirds, Prides, etc. WOODCOTE STOCK FARM. Ionia. Mich.

A berdeen-Angus-Males-Females. Polled Dur-hams both sexes. Devons, male & female. Buy quick at the Clover Blossom Farm, Port Austin, Michigan.

Ayrshire Bull Calves. Berkshire swine. Eggs for setting. High bred stock, White & Buff Orphgtons, White & Barred Rocks, Light Brahmas, White Leghorns and White Wysandottes \$1 per 15. Mich. School for the Deaf, Flint,

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

FOR SALE—Young herd of Holstein heffers, 7 yearling buils, 8 calves—the oldest established herd in Ind. W. C. JACKSON, 715 Rex St. South Bend, Ind.

TOP NOTCH HOLSTEINS. Top Notch registered young Holstein Bulls com-ming in themselves the blood of cows which now hold and have in the past held World's Records for ullk and butter-fat at fair prices. MCPHERSON FARMS CO., Howell, Mich.

HOLSTEIN FRIESIAMS Bull calves. Herd headed by Canary Mercedes Royal King. W. B. Jones, Oak Grove, Mich.

For Sale Eight choice registered Holstein at a bargain. William B. Hatch, Ypsilanti, Mich.

5 Holstein Service Bulls For Sale. Any one of which have breeding and individuality that qualifies them to head any herd. Bull calves lew good cows. L. E. CONNELL, Fayette, Ohio.

HOLSTEIN BULL CALF from two breed. C. D. WOODBURY, Lansing, Michigan;

HEREFORDS: Both sexes and all age for sale. Also Poland China hogs. R. E. ALAEN, Paw Paw, Mich

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

COLON C. LILLAGE, Coopersville, Mich.

JERSEY BULL CALF born October 4th '09. Dam gave 9,888 dbs. milk in one year, test 5 to 55%. Sire's dam's record 10,080 lbs. milk in 10½ months test 52-10 per cent. The Murray-Waterman Co., R. D. 6, Ann Arbor, Mich.

FOR SALE—12 registered Jersey Cows of St. Lambert and Island blood, from 2 to 10 years, all fresh or nearly so. Price \$100.each if taken at once. C. A. Brsitol, R. F. D. 5. Fenton, Mich.

AUCTION—Closing out Linden Lea Jersey Herd, JUNE 14th, Catalog free. H. S. CHAPMAN, Cassopolis, Michigan, FOR SALE—Jersey Bull Calves from 3-to 9 mos. old. Fine thirfty fellows and from extra good cows. A. Newman, Marlette, Mich. R. F. D. No. 1.

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

Register of Merit Jerseys. Official yearly records.
T. F. MARSTON, Buy City, Michigan.

NORTHERN GROWN JERSEYS

WITH BIG MILK RECORDS.
TUBECULIN TESTED BY STATE VETERINARIAN.
ROYCROFT FARM, Sidnaw, Mich.

BIDWELL STOCK FARM.
FOR SALE—10 Reg. Shorthern Bulls.
All good, reds and roads, from 12 to 24 months old, from the best of breeding at \$75 to \$125 each. Some of them Scotch and Scotch-topped, of the herd heading type. Also, young cows and heliers, all ages. Fifty head in herd. Parm—Two blocks from Lake Shore Station. L. I. BIDWELL, Tecumseh, Michigan.

DAIRY BREDSHORTHORNS-No stock for sale at present, Visitors J. B. HUMMEL, Mason, Mich

SHEEP.

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

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

PARSONS OXFORD RAMS also registered Hornless Delaines grade X \$15; XX \$20; XXX \$25. Romeyn C. Parsons, Grand Ledge, Mich. Michigan's largest breeder of good sheep.

SHROPSHIRE HALL STOCK FARM will import one number yearing ewes and is rame in June for Michigan and the same for Bolse, Idaho, Branch of this Farm. Will make a fair price on yearling ewes or rams, also on some aged ewes with

yearling ewes or rams, also on some aged ewes with lambs at side, for 60 days. L. S. DUNHAM & SONS, Concord, Michigan, 130 Reg. Rambolliet Ewes for sale, descended from the best flocks and bred to a pure Van Homeyer and a ram stred by a ellbert ram and imported dam. All in perfect health. In lots to suit buyers—none reserved. J. Q. A. Cook, Morrice, Mich.

LARGE ENGLISH BERKSHIRES.

Have a fine lot of spring pigs, both sexes. The type for profitable pork production. Vigorous and strong and of best blood lines. Satisfaction guaranteed. F. A. BYWATER, Memphis, Mich.

HUPP FARM BERKSHIRES!

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

BERKSHIRES Unexcelled in breeding. Selected boars, sows and glits. Choice fall plgs. T. V. HICKS, R. No. 11, Battle Creek, Mich.

BERKSHIRES of the most fashion a ble type and strains. C. S. BARTLETT, Pontiac, Mich.

A DAMS BROS. Litchfield, Mich., breeders of Im-proved Chester White and Tamworth swine. Plgs, either breed, by slappies State Fair winners. Buff Rock, Buff Wyandotte eggs \$1 per 15; W. Orpington \$3 per 15.

Berkshire—A few choice fall offits bred for early far-rowing and a choice lot of Spring Pigs with prices right and the right breed. A. A. Pattullo, Deckerville, Mich.

Improved Chesiers—Sows bred for Aug. and Sept. farrow. Choice March and Apr. farrow, either sex also W. Wyandotte Eggs 31, for W. O. WILSON, Okemos, Mich. (Both Phones).

PURITAN HERD of CHESTER WHITES WILL W. FISHER, Watervliet, Michigan.

Durocs For Sale—A few fall Gitts bred for summer farrowing. Also a few spring pigs. M. A. BRAY, Okemos, Michigan

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

DUROC JERSEY SWINE. Shepherd Dogs. B. P. Book eggs. \$1 for 15. 3. H. BANGHART, Lansing, Mich. WALNUT HILL FARM Herd of Duroes. Bred sows all sold.
35 fine fall sows, 35 fine fall bears ready for service. 100
spring pigs to date. Write J. C. Barney, Coldwater, Mich.

O. I. C. bred sews all sold. Have a few hand. GEORGE P. ANDREWS, Dansville, Mich.

0. 1. C - A few bred sows. Orders booked for spring pigs from very choice stock, pairs not akin. S. J. COWAN, Reckford, Michigan

O. I. C. REGISTERED PRGS, 10 to 12 Weeks from World's Fair winners, Glenwood Stock Farm, Zeeland, Mich. Phone 94.

O. I. C. Orders booked for spring pigs C. J. THOMPSON, Rockford, Mich.

30 P. C. Fall Pigs by two champion boars. Book-10 different boars. WM. WAFFLE, Coldwater, Mich.

MULE FOOTED HOGS Greatest vitality of for sale from 5 big boars. Send stamp for informer for sale from 5 hig hoars. Send stamp for infor tion.

J. H. DUNLAP, Williamsport, Onto.

HEAVY BONED POLAND CHINA PIGS at red Rocks \$1 per 15. ROBERT NEVE, Pierson, Mich.

MICHIGAN'S GREATEST HERD of big Poland-China Hoge. Big Boned, Long Bedied, Big Litters. The farmers hog. A bigger, better and more prolifie. Poland-Ohina. Write Tow what you want. Bell phone. J. C. BUTLER, Portland, Mich.

FOR SALE-4 P. C. boars ready for service. Eggs for hatching & prize winning Regal White & Columbian Wyandottes, Zach Kinne, Three Oaks, Mich.

Poland Chinas Boars, Gilts and Pigs of quality at the right price. B. M. WING & SON, Sherdian, Michigan.

POLAND-CHINAS—Booking orders for spring pigs. Nothing else to offer. WOOD & SONS, Saline, Mich.

Large Improved English Yorkshires.
The hogs that make good. September gitts bred to farrow next August or September. Spring pigs of either sex. Pairs not akin. Satisfaction guaranteed.
COLON C. LILLIEE, Coopersville, Mich.

BREEDING PURE-BRED SWINE.

The Breeder as a Salesman.

The highest financial success in breeding pure-bred swine depends, in a large measure, upon the ability of the breeder to sell his stock at a remunerative price. less than their actual value, simply because their breeders are not first-class itself, but if the breeder is a good salesas constructive breeders. Men are very questionable methods. scarce who have achieved the two-fold success as breeders and salesmen.

their actual worth, though this may frequently result through no studied effort er often recognizes at once an inflated cess. They know that if your sale is a price for an inferior animal or a low success they will be more than repaid by price for an animal of outstanding excelanimals is, always has been, and always will be more or less vague and intangible. The most prescient of the prophets are at sea when they are asked to estimate the fact, there is no way of telling when a the important factor they have been in seller is securing an inflated price for the the development of practically every adbest class of young breeding swine. How- vertiser's business. ever, on the other hand, there are many than the men who bred the animals.

Only a few men are natural salesmen, can sell good stock for absurdly low to get the last dollar represented in the value of the animal he is selling. Good salesmanship can be used in compiling they desire to keep over. catalogues and writing his advertising You should make a study of the art of depend upon your ability to obtain good prices for your animals as it will upon your ability to produce them.

or quote an absurdly low price for good liver the stock when promised. As more than one-half of the sales of pure-bred swine are mail-order sales it is very necessary that the breeder be a good letter writer and send out well written letter, reinforced by attractive stationery. Answer every inquiry as promptly as possible. Invite personal inspection, describe your sale stock accurately, keep an exact copy of every letter sent out and to this attach the inquirer's letter. Be brief and concise in all of your letter writing. There is no reason why a breeder should not own a typewriter and send out as good appearing letters as a business firm. A pleased customer is a fine advertisement and you should try and adjust every complaint in a satisfactory manner, even though you may not be entirely to blame for the trouble. By not over-describing the animals the complaints will be very few and far between. Always hold a bred sow until you are sure that she is safe with pig, for this is one of the most prolific sources of trouble between breedrand buyer and a matter that is always difficult to adjust to the entire satisfaction of both parties.

Human nature is largely the same wherever we find it and in no matter what line of business we are engaged. If something is bought and good money paid for it and it fails to turn out as the buyer had figured it would, then he is dissatisfied. Dissastisfaction takes various forms with various men. Some lose their reaessary that the breeder be a good letter

son entirely and demand damages far beyond all reason. Others get dissatisfied and leave everything to the seller to adjust. Then again, there are many honest buyers who merely want what is coming to them and are willing to adjust their troubles in a quiet way and on an equi-Many of the best animals sell for much table basis. Some buyers seem to be looking for trouble and are always claiming large damages if they do not get salesmen. A first-class animal will sell something for nothing. To protect himself from such buyers the breeder should man the exercise of this one talent will fortify himself in case such buyers make often result in his securing a much larger an effort to impose upon him conditions price for the animal. Some very suc- which were not contemplated when the cessful breeders are poor salesmen. Some original deal was made. It is one thing of the most prominent money-makers in to be seeking a good bargain, but quite the trade have never became prominent another to be seeking one with the aid of

The public sale is an excellent means of disposing of pure-bred breeding swine. A good salesman does not allow his The sale should be well advertised in the commercial cleverness to dull his moral best farm and live stock papers circulatsenses and sell inferior animals far above ing in your own vicinity and in adjoining localities. These papers have your interests at heart and will do everything withof his own. While the experienced breed- in their power to make your sale a sucthe larger amount of advertising you will lence-still the intrinsic value of breeding throw their way in the future as your business expands. This is not a matter of sentiment but hard business principles. Look over the leading agricultural papers that carry the same business advertisevalue of a young breeding animal. In ments year after year and you will realize

Engage a good auctioneer before you grades of inferiority and also of superior- claim the date for your sale; all of the ity, and when these are multiplied it is best men are booked many days ahead. evident that unless the animal is a real The auctioneer must be a man that is a 'scrub" or an unmistakable winner there thorough judge of individual merit and can be no set standard, which can be used also one who is acquainted with the blood in estimating its actual value. One thing lines of the breed he is selling. It is a is certain, more pure-bred swine are sold mistake to engage a local auctioneer who below than above their true value. The might be a good seller in ordinary sales fact that sepculators can buy animals for but who is not acquainted with the purelow prices from breeders and sell them bred sale business. An expert auctioneer for many times what they paid the breed- travels in all parts of the country and has ers for them is very strong evidence that an acquaintance among breeders that will they possess better ability as salesmen prove very valuable in attraction to your sale.

Combination sales have not proven as but every man can acquire a knowledge satisfactory as breeders' individual sales, of selling stock that will prove of incal-principally because they attract a crowd culable value to his business. Any man of buyers who are looking after a cheaper class of animals. Of course, when two or prices, but it requires an intelligent man three breeders live in one locality they who is a close student of human nature many times find it very convenient to hold a combination sale, especially when they have more animals on hand than

Present only good stock that is in good matter, in correspondence and in talking flesh at the public sale. Flesh and condithe business, face to face with buyers. tion in the sales ring, the same as in the show ring is an important factor in showselling your stock. Make a study of each ing the animal to its best advantage. letter and of each visitor. You will find Have every arrangement made early and that fully as much of your success will plan to keep the crowd in good humor and have competent help to look after the stock so that you will have time to entertain your visitors to the best advan-Never advertise something for nothing tage. Never make a guarantee that you will not be perfectly willing to live up to. breeding stock. Advertise persistently Have your pedigrees ready to hand over and liberally as the size of your herd and with every animal that is sold. If there the quality of your stock will warrant, is any one thing that pleases the buyer Be bold and conservative. Have exactly it is to have the pedigree and transfer what you advertise and be ready to de- promptly handed over as soon as he settl's for his stock.

New York. W. MILTON KELLY.

LIVE STOCK NOTES.



beings, destroys more property and stock than all cyclones, tor-nadoes and floods combined. It causes 75 per cent of all fire losses according to official record.



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D. & S. Woven Copper Cable Lightning Rod and System of Installation affords the only safe and reliable protec-tion against loss by lightning. This posi-tive and exclusive declaration is made by the Mutual Insurance Companies of the United States and Canada (2000 companies).

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Endorsements of leading fire insurance companies (list of them in catalogue—send for it). There are allowances of 10 to 33 1-3 per cent off insurance when buildings are rodded with D. & S. Woven Copper Cable Rods.

D. & S. Rod Pays for Itself and Then **Begins to Save You Money** When Your Insurance Bills Come Due

More D. & S. Rods sold than any other three makes combined. Insist on the trademark D. & S. It is your protection. Send for catalogue and book, "The Laws and Nature of Lightning," free.

Make Yourself, Your Family, Your Property, Safe. DODD & STRUTHERS, 429 Sixth Ave., Des Moines, Ia.

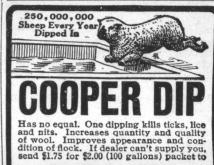
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Your horse has worms if he has any of these symptoms: Nervousness, ttching, rubbing tail, rough coat, hide-bound, andruff, unthrifty condition, bleating, dusty rectum and passing worms.

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

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WM. COOPER & NEPHEWS,



H-E-C Medicated-Tonic STOCK SALT

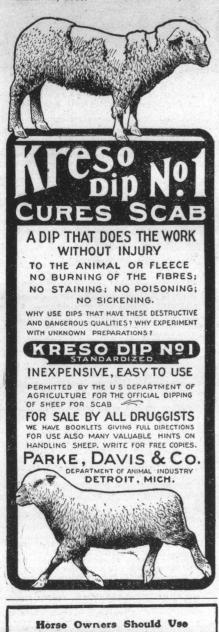
The Great Worm Exterminator for Worms in Horses, Sheep, Hogs and Cattle. Regulates the Stomach, Kidney, Liver and Bowels. Put up 5 lbs. 25c; 10 lbs. 50c; 20 lbs. \$1; 50 lbs. \$2.50. Ask your dealers everywhere.

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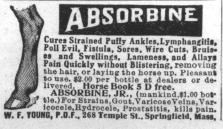
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which will make it unprofitable to raise beef animals on the farm, as was the case



better grade of fruit and vegetables which are placed upon the market and the command by their producers of a greater influence in the market on account of the large quantities of single products controlled by a single authority.

The associations of grape growers and the example of the single produce association for the marketing of potatoes, as well as the co-operative creamenies and cheese factories now operated in Michigan, demonstrate both the practicability and utility of this method of marketing.

May we see, in the near future, the mentioned the fact that in 1906 the state expended \$26,000, which sum has increased annually until this growing. He mentioned the fact that in 1906 the state expended \$20,000, mostly for rewards for the building of good roads in counties and townships according to state specifications. He believes the time will soon come when the state will spend three or four times this amount, which will be possible with a tax of less than 10 cents on each \$1.000 valuation. He rementioned the fact that in 1906 the state expended \$20,000, mostly for rewards for the building of good roads in counties and townships according to state specifications. He believes the time will soon come when the state will spend three or four times this amount, which will be possible with a tax of less than 10 cents on each \$1.000 valuation. He position, having had several years' experience in subscription work. As manager of our office in Grand Rapids, he will be ably assisted by his son, Clifford. Mr.

be in the nature of a special tax, and the matter was referred to the legislative committee to see what could be done

committee to see what could be done about it.

New officers of the association were elected as follows: President, Philip T. Colgrove, of Hastings; vice-president, N. P. Hull, of Dimondale; secretary and treasurer, Thomas M. Sattler, of Jackson. Former Presidents Horatio S. Earle and Wm. W. Todd will act with the officers on the legislative and executive committees.

HAPPENINGS OF THE WEEK.

Foreign.

Col. Roosevelt arrives in London this week where he will represent the United States at the funeral of King Edward. Rest has completely restored the Colonel of the attack of bronchitis contracted in Norway.

week where he will represent the Universitates at the funeral of king Edward. Rest has completely restored the Colonel of the attack of bronchitis contracted in Norway.

No satisfactory reports are coming of the trubble between Ecuador and Peru but all news indicates that the forces of the two countries are in the field, making preparations for war. No engagement of importance have taken place.

The steamer Venus, which left New Orleans a fortnight ago with arms and ammunition for the Madriz forces in Nicaragua is reported to have made harbor and will probably be successful in delivering her munitions of war. An engagement is expected in a few days between the provisional troops and those of Madriz, the two armies now are facing each other. Protest was made to this government for allowing the ship to clear harbor at New Orleans, officials being informed of the purpose of the trip of the vessel. The English parliament in session last week, paid tribute to King George V.

The Camadian navy which has been in contemplation for some time, will be built in Canada. It is the purpose of the government to establish a large ship building plant for the purpose. The navy will be started by the construction of ten war vessels.

Last Friday Theodore Rocsevelt delivered a lecture on "The World Movement,"

vessels.

Last Friday Theodore Roosevelt delivered a lecture on "The World Movement," at the University of Berlin in the presence of Emperor William. Mr. Roosevelt received from the institution the honorary degree of doctor of philosophy.

National.

National.

James W. Van Cleave, ex-president of the national association of manufacturers and famous as a fighter of labor boycotts, died in St. Louis, Sunday.

A battery of five boilers exploded at Chewton, Pa., killing three and injuring six other persons.

This week the United States Supreme Court is considering a dispute over the boundary between Maryland and West Virginia along the Potomac river, Maryland claiming that the line is the highwater mark on the south bank of the stream, while West Virginia contends that the low-water mark is the proper division. The description was written in

stream, while West Virginia contends that the low-water mark is the proper division. The description was written in Latin back in 1620 and is not clear.

With the hope that business will be well enough in hand to allow the members to go home then, congress is now anticipating adjournment about the first of July; no vote has, however, been taken on the matter to date. Plans involve the holding of night sessions to finish the vast amount of necessary work. No administration bills of importance have as yet been passed, the work thus far being largely in the hands of the committees.

A series of earthquake shocks occurred at Los Angeles, Cal., and vicinity last Sunday morning. Damage to buildings was done in many sections although the destruction of property was not particularly serious at any point. No casualties were reported.

Counsel for the United States in a case against Great Britain involving disputes (Continued on page 549).

Magazine Section

LITERATURE POETRY HISTORY and INFORMATION



The FARM BOY and GIRL SCIENTIFIC and MECHANICAL

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

VISIT TO BARBARA FRITCHIE'S TOW

BY T. C. HARBAUGH.

gers the boys and girls of America who have not heard of Whittier's war-time heroine, Barbara Fritchie. Her name and fame have crossed the seas and are known wherever there is a written language. The "Barbara Fritchie" of the good Quaker Poet has been declaimed in many a school and will ever be a favorite young elocutionists. Though she went to her rest years ago and sleeps in a quaint little cemetery in her cherished town, "green-walled by the hills of Mary-land," many a tourist seeks the spot of her sepulcher and parts the long grass in order to read the simple inscription on her modest headstone. There are graves better cared for in nearly every cemetery and loftier monuments than the one that marks her resting place; but it is a much sought-for place and few visit "Frederick without making a

First, a word about old Frederick, to which city "dame Barbara" has given undying fame. The place lies in western Maryland, in the heart of the beautiful Monocacy Valley and the Catoctin Mountain on the west and Sugar Loaf Mountain on the east. It is circled entirely by mountains whose summits stand out against the sky, the whole forming a landscape fitted for the brush of the greatest artist and the inspiration of the finest poet. In 1745 the "Village of Frederick" was laid out by people who were entranced by the beauty of the location and was named for Frederick, Prince of Wales. It was already a noted place when General Braddock set out on his ill-fated expedition to the Monongahela, for he rested there a spell, or until the teams secured by Benjamin Franklin could join Washington, then a rising the army. young officer of the British army, accompanied Braddock, and he is said to have danced with the belles of Frederick the night before the journey through the wilderness.

It is now a city of ten thousand souls. with modern streets and buildings and a seat of much learning, having several seminaries and colleges. It is a recorded fact that prior to the Declaration of Independence the citizens of old Frederick assembled and adopted the following resolution: "That what may be recommended by a majority of the Congress equally delegated by the United Colonies we will, at the hazard of our lives and fortunes, support and maintain, and that every resolution of the convention tending to separate the province from a majority of the Colonies without the consent of the people is destruction to our internal safety and big with public ruin." All through the War of the Revolution Frederick stood fast for freedom, sending many of her young men into the famous Maryland Line which, on many a hard-fought field, met and repulsed the king's veterans with the bayonet. As early as 1765, in the old court house at Frederick, the odious "stamp act" was boldly pronounced in-

Miss Barbara Hauer, afterwards Mrs. Fritchie, grew up among scenes and times like these which breathed resistance to oppression, and, coming from good old Pennsylvania German stock, she became a woman of strong convictions. She loved the Valley of the Monocacy; she spent her girlish days among the mountains about her home, little dreaming that she was destined to add undying fame to the place of her adoption.

Advancing years were kind to Barbara Fritchie. She visited the sick and comforted the dying, and her gentle heart was full of charity. Whether or no the poet erred in ascribing to her the thrilling heroism that breathes through his poem matters little now. Her fame is secure

and the young of our country take pride It is encircled by a high wail and entered in telling of her deed

"On that pleasant morn in the early fall When Lee marched over the mountain

"Over the mountains, winding down, Horse, and foot into Frederick town."

The home of Whittier's heroine has given place to modern improvement, but its site is still pointed out to the visitor. Not far away runs a narrow little street which is crossed by a mill-race, spanned by a swinging bridge, and over this scant way that September day in 1862 poured 'Stonewall' Jackson's men in gray-

"Forty flags with their silver stars, Forty flags with their crimson bars."

through a dilapidated gateway. It is an uncanny spot even in the garish light of day, and at night it is truly dismal. The ponderous iron key to this uninviting 'God's acre" is kept by a sexton who loans it to the visitor. The key is attached to a cumbersome bit of board which one has to carry with him through the streets. One has to search a long time for the grave of Whittier's heroine. Rank grasses, frequently cut for hay, impede progress at every step. It is almost like hunting for the proverbial needle in the haystack.

At last, half enclosed by a broken iron Forty flags with their crimson bars." fence, he finds the burial place of "good Beyond the little bridge lies an old cem-dame Barbara" and her husband, John etery in which burials are no longer made. Fritchie. If one expects to find a beau.

sepulcher he is doomed to disappointment. The long grass hides everything. By diligent search one is rewarded at last by a very modest stone over which, in the soft Maryland light, trail myrtle and honeysuckles, the very flowers Barbara Fritchie loved and tended. The simplest of inscriptions relieves the stone of bareness and the tourist reads it at a glance:

"BARBARA FRITCHIE. Died December 18, 1862. Aged 96 Years."

"Only this and nothing more!" may come when old Frederick will awake to her duty and replace that poor stone with a fitting memorial to the woman whose name is indissolubly linked to her own. After all, Barbara Fritchie's grave lies amid scenes of beauty; her blue mountains surround her, she has her myrtle and her honeysuckle, and bird and bee make music over her last home in Frederick Valley.

Not many squares away, in the heart of beautiful Mt. Olivet Cemetery, stands an imposing monument over the grave of the poet who gave us our national anthem. Francis Scott Key, the illustrious author of "The Star Spangled Banner," was a native of Frederick and was brought here for entombment with his fame secured by his immortal lyric. He has been honored by one of the most beautiful monuments ever erected to the memory of a poet and one can stand beside it and almost see the neglected spot where Barbara Fritchie sleeps. In the same inclosure lie the remains of four hundred Confederate soldiers who fell at the battle of Monocacy, fought in the outskirts of Frederick, and they, too, are remembered by a handsome shaft.

Frederick has still another historic plat of ground. On one of the side streets stands a tumble-down house which at one time formed the headquarters of the immortal Washington. The patriot is thrilled by memories of the past as he gazes upon the old structure which long ago housed the Father of His Country. steps have ever been taken to keep the old place in repair. It is the refuge of the owl and the dwelling place of the drowsy bat. Its old windows with their diminutive panes carry one back to the "days of yore" and invest the old shack, despite its dilapidation, with sacred memories. I am told that a movement will soon be started to wrest from the hands of ruin the grave of Barbara Fritchie and the headquarters of Washington, and restore them, as far as is possible, to their original condition.

There is much about Frederick to interest the visitor. In fact, there are few places so rich in historic recollections, and few cities so romantically situated. The surrounding country is productive and well tilled. Great stone barns that have withstood a century's storms dot the enticing landscape, the picturesque Monocacy ripples away within hearing of the city, and around it, in season, in the words of the Quaker poet, are,

"Apple and peach trees fruited deep." More than once during the Civil War Frederick was a place of excitement. Her streets echoed to the tread of the Blue and the Gray, and from her hills can be seen the crest of South Mountain, where brother met brother in one of the important battles of those sanguinary times. But such scenes have drifted into the past. Frederick reposes in a valley of thrift and peace, the golden-winged bee seeks' sweets among the wild flowers that beautify Barbara Fritchie's grave, and one can say as said the loving Whittier: "Peace and order and beauty draw Around thy symbol of light and law;

"And ever the stars above look down On thy stars below in Frederick town!"



Francis Scott Key Monument-Frederick Town.



Where Washington Stopped in Historic Frederick Town During Colonial Days.

ROMANTIC LIFE of HERBERT FURLONG.

Thrilling Experiences of a Soldier of Fortune, Ranchman and Federal Detective.

Hale and Hearty at 89, he is Living the Life of a Recluse within the Confines of the Peninsular State.

BY J. W. GRAND.

England on a visit, but before going any further I must tell you of a narrow escape I had one day.

wear, and in setting the pockets the makhung low down upon the thighs, causing a chafing sensation from their contents, which was anything but agreeable.

"Hello! how is this?" I cried, as I put my spare lines into the left pocket. thought you promised to alter these pock-

"Who knows," said my wife, "but the you might have lost had I cut them off."

"All ready," shouted John at that moment, for which I was thankful. I turned and saw Morgan's intelligent face peering at the window, John holding him by the bit, and without further remark I packed and made off, only stopping to do what I have never learned to forego-to kiss my loved ones as the parting blessing is whispered. It dissipates mists makes sunshine.

Into the wagon and away we went. Up Swift river in the town of Albany, N. E., (we started from Conway) under old 'Mote Mountain," taking the shadow of "Hay Stack" and "Eagle Ledge"—these on our right, the swiftly rolling and dashing river low down on the left-in under the grim side of Chocorna, thence over river, and now through a region as wild and romantic as the most devoted lover of the sublime in forest compass could desire, up to the "Falls," where we unharnessed the faithful horse, secured him, and gave him something to eat; and then over to the little pond under Spruce mountain, where we caught fifty beautiful trout. After this we ate our lunch and then took about one hundred and fifty of the speckled fellows from the river. We quit fishing a little earlier than we might otherwise have done in order that we might keep a promise made to the women folks. We had, inadvertently, let them into the knowledge of the fact that on the way to and from our fishing ground we passed a spruce wood, where we observed signs of nice chewing gum, the result of which was that we were placed under a solemn promise to take a long-handled chisel with us the very next time we went up the river, and get them a good lot of spruce gum. On this after-

The spruce wood was within three or four miles of my home, and when we ar- did I do? What could I do? -Within one rived there we secured the horse, took our long-shafted chisel, and set forth. We had gone but a short distance when we discovered a large rattlesnake in the path until it fairly lay over toward the crest, and were evidently glad to have the field shake hands on that Indian war that just ahead of us, which John succeeded in He measured, as nearly as I could judge, from five and a half to six feet in length-a large one with eight rattles

noon we started on our return three-

quarters of an hour earlier for the pur-

pose of fulfilling our promise

those monsters! Talk of your cobras and there rattlesnake. I know they give token of their presence in shrill, piercing alarm-no one knows it better; but annihilation seize them! They will strike the death blow while they do it, if they can.

I looked for gum while John carried the dead snake to the wagon and stowed it away under a branch of break-leaf. When he returned we talked rattlesnakes and told each other what we had heard He noticed the fallen spruce and was that civilization had taught him. and read, and what we knew of their

awful nature, "Of course," said John, who held himself an oracle in such matters, "there's another o' them snakes not far away. They always travel in pairs. And he was

After knocking about in America for a not the first one who had declared the while I rented a small farm in New Eng- same thing in my hearing. However, we land and sent for my family. But, being were after spruce gum, not snakes, and green in the farming business, I soon we made a strike for it. I had a tree in tired of that and decided to go back to my "mind's eye." It was a stately spruce that had been blown over by a gale during the previous March, the top of which had been lodged against a clump of scrub It was a bright morning in early June oak that grew upon an abrupt elevation that John, my man, hitched "Old Mor- which must have once been a bank of thing it contained, the broad, flat piece gan" to the wagon while I donned my Swift river; but the trunk of the tree fishing suit and prepared the lunch, or was so far from the ground that no it. The line was new and of fine white rather, told the women how to prepare it. one had been able to reach a section silk, and we saw upon the silken surface I had a pair of stout corduroy pants, where a long, rich line of goodly lumps made on purpose for forest and river of pure amber gum had exuded from a seam about half way between the roots er had so cut and inserted them that they and the top. I found the spot and eagerly jammed my way in among the thickly growing shrubs that extended down the whole face of the bank, for I saw that I could reach the big bright tears of gum with my shaft chisel.

This bank faced west, and as I obets before I had occasion to use them served how the rays of the declining sun were pouring their golden sheen upon it, I thought what a place for the lurking of depth of those pockets may be the means a snake. The thought thrilled me as I of saving you something of value, which approached the bank, but when I saw my prize I forgot all but how I could best secure it. As I have said, I jammed my way into the shrub thicket, which was there about breast high, never looking down, for the cloth of my garments had been selected to withstand such contact, only looking up to where the gum was within reach of my chisel. I had secured twenty or thirty pure lumps, all within my reach, from two standing places, and was pushing recklessly ahead against the intervening shrub, when I stopped as if a thunder bolt had burst upon me from the clear sky above.

Reader, did you ever hear that alarm? If not you may have heard our common locust-the rough-hided, grey-backed, fiying grasshopper that sings with such sharp ear-piercing note. Well, strengthen and intensify that sharp, ringing vibration tenfold, and then add to it a hiss just as sharp and penetrating, and you have the alarm note of the rattlesnake.

And this is what I heard, and what arrested my steps. In starting to spring backward my heel caught an obstruction, and in order to save myself from falling was obliged to grasp a branch of the fallen spruce, the only thing at hand stout enough to support me, and in doing this I made a slight bounce to the left. My left foot came down on something that moved beneath it-moved, and struggled, and hissed—and I felt as though ten The evicting party was in full operathousand galvanic batteries had sent tion. They were piling the scant furnitheir united currents through my frame.

I cast my eyes down and saw a bright bow, formed of two threads of light. clearly defined amid the deep shade of the shrub. I knew 'twas the monster's eyes, flaming mad fire, drawing that curve of light as the ugly triangular head swept to and fro, but swept so only for an in-My foot was upon its body not more than a third of the distance from its tail, so that fully two-thirds of its length in twos and threes edged away from the "They called me that. I was earning was free, and it was a large snake. What houses and went up the hill, gathering in money for my education." second after I looked down the deadly reptile was ready to strike. The head was thrown far back, the upper jaw raised ally with some curiosity but worked on and I knew the blow was coming. I could clear for their operations. Weeping woonly throw up my hands, start backward men and sobbing children are not comonce more, and think of the wife and two fortable spectacles for even a man with precious children at home. The blow came the soul of a Herod. quick and strong, striking me upon the clinging to the fabric of my trou the however, the tail, or the lower part of the his rifle in the hook of his arm. body, caught among the shrubs and the fangs were torn away.

and dizzy, knowing that I had been struck and expecting every moment to feel the touch of the poison upon my vitals. As mordial spirit of the savage like "a flash I reached the path John was by my side, from black embers," had subjugated all making for it.

"Good gracious! What ails you?" he cried as he caught sight of my face. "Bitten!" I gasped.

"A rattlesnake?" was his instant query. "Yes." said I.

"Where?"

I placed my hand upon my thigh where I still felt the force of the blow. "Let's We'll cut into it, bind on a piece look. of the fat from the dead one and then put for home. Quick-where is it?"

My thigh was exposed, but there was not a mark of poison fangs-not a scratch or puncture of any kind.

'There's no bite here, master, not a

sign of a one."

John's happy, thankful smile of assurance gave me strength, and my thoughts came to my aid.

I looked where the thread of the corduroy had been started up into loops by the tearing away of the snake's fangs and saw that it was directly over the objectionable pocket. I put my hand into the receptacle and drew forth the only of shingle with the trout line wound upon the stains of the snake's deadly virus. but we saw it more plainly upon the smooth wood. The fangs had struck through the pants' pocket and three turns of the line to the wood; and we could follow the yellowish lines where the subtle poison had crept along the grain of the wood as plainly as though they had been drawn with pen and ink.

Do you wonder that I was weak and that I let John drive home? And do you wonder that my face gave token of recent terror when I entered the house? At all events, there was no more wonder or marvel at that board after my story had been told. But you can imagine that the pocket, so condemned in the mroning, furnished food for a very curious discussion, and in the end we were all inclined to admit that man is so far a creature of circumstances that he hath much and continual need of reliance upon a higher power than his own.

(In our next Magazine Section Mr. Furlong will tell of an extremely perilous hour during his experience as a mill overseer in England.—Eds.)

A FLASH FROM BLACK EMBERS.

(Concluded from last week).

In his recent visits to Evangeline the young man had become acquainted with certain features of Castonia that fitted his suddenly formulated plan.

The chief crop of the settlement was otatoes. The community had built a potatoes. single, frost-proof repository, for no house had a cellar. This storehouse was a cavern in a hillside.

The young man gathered up the arms in the warden's canoes, when he had landed in the inner cove of the logan. The warden had confiscated ammunition as well as weapons. The girl secured the sack that held the cartridges. And crouching and running in the underbrush they circled the houses and came out upon

The evicting party was in full operature out of doors, preparatory to removing it to the river bank. The manager depended on the bateau men to assist in the job later. No eye was cast their way when the young man and the girl stole into the mouth of the potato cellar.

moment later she emerged and walked down the hill and went among the women and children, giving them certain commands in low tones. And these a group before the mouth of the cave until all were assembled there.

The evictors glanced that way occasion-

But when a voice, tense, commanding, Oh, how I shudder when I see one of left thigh, and yet I forced my way back- and having the unmistakable note that ward without stopping, but I looked down men fear, hailed the toilers from the emimoccasins, and your stinging vipers. I and saw that the venomous reptile was nence, they stopped and gazed with something more kind more deadly than the New England hooked fangs preventing his letting go was no one in sight except Nicola of the illuminating flash to the effect that plain while I was in motion. In an instant, Penobscots, erect, determined and with and straight law and business demands

"I'll give you three minutes to be in your canoes and paddling down the river. Backward I staggered to the path, faint you white thieves," he shouted. He swung his rifle to his shoulder, and they who blinked up at him saw that the pri-

"Come down here, or I'll shoot!" roared Murtha, hauling out his revolver and, as a woodsman, realizing its inefficiency as soon as he held it in his hand and looked up at the rifle. The sheriffs, certain that the field was clear for them, had come bounds. It may be good business to do

armed quite as inefficiently. They fumbled a moment at their hip pockets and took their hands away.

"I've got twelve rifles in my canoe," cried Murtha, not yet understanding the sortie managed by the Indian.

"Your twelve guns are here and loaded and each one is in the hands of a woman bound to protect her home," retorted Then the men saw the muzzles Nicola. shoved through the dirt walls of the

"It will be state's prison for you, resisting officers," cried the manager, for Murtha seemed to have suddenly lost his

"I am an Indian," said the young man. "I was willing to become something more. But you would not let me. You have two minutes left. Then I shoot to kill."

"He'll do it!" growled the manager. 'And there's no knowing when one of them women will pull too hard on a trigger. We've got to back up."

They tried to retreat with dignity, but when one of the sheriffs began to run the others followed him in a rout. And the girl came and stood by her lover's side and watched them.

"We should have let them take us, dear," she said despondently. "All the power is with them. It will make it the harder for us in the end."

"I know it, little girl," he replied; "it has been only another sorry flash from those dead embers that they thought they had trampled into blackness forever. But the old spirit blazed in me. I couldn't help it. I fear the past has not taught the Indian his lesson!"

After a moment he sighed, laid his rifle in her hands and went down the hill without a word, following them.

The men were out upon the river when he came to the shore but he called to them, holding up his empty hands.
"Gentlemen," he said quietly,

"Gentlemen," he said quietly, when they were within hearing distance, paddling back slowly and not without suspicion of strategem, "It has all been a mistake on my part. I should have made better use of my education and remembered the precepts of my church in better fashion. But that game warden first partook of my hospitality and then took me by deceit and refused me the common courtesy due to one who had tried to be a gentleman according to the white man's standard. I gave him fair warning to expect strategy in return. My thoughts were wild and my heart was bitter-and when I arrived here I saw the girl to whom I am betrothed insulted and cast out of her home. I think it is all wrong and bitterly cruel-but what can the weak avail when the strong are determined?" He tossed his hands to them outspread and smiled in wistful apology. "I do not want to make more trouble for these innocent people. They will go with you. I will go with the warden but I will test our legal and our treaty rights in the white man's courts.

There was long silence among those in the clustering canoes. Then the canoes drew more closely together and there was the mumble of voices in colloquy

At last one canoe separated from the rest and came ashore. It brought the manager of the pulp company. He stepped on shore, looked the young man up and down for some time, his eyes puckering shrewdly, and remarked, "So you are 'Big Thunder,' eh, the ball player?"

The manager surveyed him up

down once more. "You are no coward, young man." he said, with simple earnestness.

closed. Nicola clasped the outstretched palm.

"I'm a business man," the manager went on. "I've always been a business man. I never took enough time off for sentiment, I'm afraid. Business men are a little ashamed of sentiment. But when you came down to the lake shore there a moment ago talle don't settle all the human rights in this world. It was just a flash. It made me dizzy. I don't want to think too much about it. It might spoil me for a business man. It isn't our business to leave squatters here on our property-not even though your sweetheart pleads for them. But"-he blurted out his decision in haste that showed he feared for himself-"I propose to let 'em stay here. My word goes. I handle all this line of business for the company. When their men folks come back from the woods I'll make a trade with them to keep within certain



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If I wake up in the night and think of caving in like this, I'll say to myself, 'It's good business!' and kind of console myself that way. So that's all Tell 'em so. Good day.'

He started back to the canoe, but whirled and looked Nicola over again.

"Let's see!" he mused, "you are strong, mighty healthy, full of grit, know these woods and waterways, have got a college education and probably are good at figures! What kind of recommendations can you furnish?"

"From all my teachers, from my church fathers and from the officers of the bank that has offered me a position."

"Bank life would kill a hearty chap like you," objected the manager bluffly. He came and pleasantly took Nicola by the

"I'm looking for an outside man to tour our twenty camps and mills, keep account of supplies, act as paymaster and be my right-hand man generally. In business you've got to size men and size 'em quick. I've sized you. You seem right. The job pays twenty-five hundred a year and expenses and would give you a chance to help and defend your people. It's twice as good as a bank job. Get your recommendations together and hunt me up. I'll give you five days. What say?"

"I'll take it," replied Nicola, his eyes filling, and he gazed up to where the girl was standing on the hillside.

"Oh, and by the way," said the manager briskly, "when you get married you can have one of our houses, rent free. Why not get married in those five days? Then you'll be all ready to settle down to business."

Nicola forgot the warden, glaring from his canoe in the river. He started away up the river bank, his eyes still on the He heard the manager shout to Murtha. "Your guns, warden? Oh, go get them if you want that truck! don't you bother my new paymaster, there. He's got other things on his mind besides fooling with game wardens. You and I will settle that matter going down the river.'

And while they were going down the river-sheriffs and warden and lawyer and manager-Nicola settled another matter, with Evangeline Hebert's head on his breast and her dark eyes beaming with love and gratitude into his.

KINKS.

Kink I .- Two Problems. Two Problems = Am American Proet = Am American Author.

Kink II.-Drop Letters.

Drop the same letter and change: 1, An article of food into a small nail. 2, Part of the body into a verb. 3, A small ornament into an adjective. 4, A metal into a boy. 5, A verb in the present into its past. 6, A water plant into a color. 7, A nuisance into a verb. 8, Necessity into a boy's name.

Kink III.—Charade.
My first the place I love to be,
My second a land beyond the sea
My whole a king it seems to me.

Prizes for Straightening Kinks.—To the sender of each of the ten neatest correct answers to all of the above Kinks, we will give choice of a package of 50 postcards of general interest, an Atlas of the World, or a book, "A Trip to the North Pole." Where contestant or some member of his where contestant or some member of his family is not a regular subscriber a year's subscription (75c) must accompany answers. Answers must not reach us later than June 10, as correct solutions will be published in issue of June 18. Address answers to the Puzzle Dept., Michigan Farmer.

armer.
Answers to April 16 Kinks.
Kink I.—Botanical What-is-it?—Equiseum hyemale, commonly called Scouring
ush. Equisetacea family. Prefers sandy
oil and low, moist situations. Early Rush.

Kink II.—Progressive Enigma.—1, H; 2, Ho; 3, Hon; 4, Hone; 5, Hones; 6, Honest; 7, Honesty.
Kink III.—Remnants.—Hawk, (haw);

Kink III.—Remnants.—Hawk. (haw); pain, (pan); nape, (ape); bark. (bar); star, (tar). The remnants spell Kinks.

April 16 Prize Winners. But one set of correct answers was re-eived and award is made to Florence



roofing that has to be painted every year or two is a constant care. Suppose you should neglect to paint yours in time. The

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P. 0.	STATE

WOMAN AND 👄 HER NEEDS

Masculine Woman?

HAT has become of the masculine type of woman? Ten years ago, you could scarcely look out your front door without seeing a creature who took two looks to satisfy you if it was a man or a woman. Bifurcated skirts, stiff shirt fronts, high, choking collars, plain, hard, sailor hats and coarse, thick-soled shoes were common articles of feminine And with this garb went a female whose ways were brusque, voice gruff, walk, a bold, vigorous stride, an independent, aggressive creature who could not be loved for her clinging feminine charm nor admired for her near-mascu-

But now all is changed. This type of woman has passed away, and even the suffragettes are mild-mannered, graceful, gracious, charming, feminine women. Our eyes are no longer pained nor our sense of the fitness of things shocked by this figure of the past. Perhaps we have the fashion-makers to thank for this, for clothes are again feminine. And if it is true that manners make the man, it is equally true that clothes make the woman. A woman just can't wear a Princess gown, lingerie waists, and trailing skirts and act like a man. In such a garb she is essentially feminine, and must play the part, so a vote of credit is due the modistes who have brought about the change.

But I am inclined to think the women brought about the change to a great degree themselves. Women are prone to as nutritious as beefsteak, but as steak directly on the stove. go to extremes, but left to themselves contains 19 per cent protein while mushthey usually see the error of their ways and right things. I believe women just naturally awoke to the fact that a mannish pose isn't a good thing, for more reasons than one. In the first place, it wasn't natural, and all unnatural poses are bad. Then women can never get over minded, manly woman play the part of skin if it is tough. clinging vine? Besides, the men didn't Canned mushroo want to be leaned on by such women. It is all right for a man to act as stay and isfactory as fresh ones. comfort to a delicate, flower-like bit of feminity, but it makes him feel mighty foolish to be a prop to a big, muscular, mannish woman who wears clothes a great deal like his own.

There were other forces at work, too. That woman belonged to the era when women's highest aim was to get rid of Business, professions, home-making. fame, were beckoning her and seemed to have more force than love and baby fingers. But that period is passing away. Once more the world has swung around, and woman is again settling back into her best work, that of keeping a hearth bright for a happy family.

Take it all in all, the masculine woman Everything and everybody had to go. was against her, and seeing the trend of things she considered discretion the better part of valor and tactfully and silently withdrew. So silently did she go that her departure was never noticed. It was like the passing of the snow, so quietly and naturally effected that we never thought of it until one day we awoke to find her gone. It is a good thing. She probably had a part in the world's work, but that part is over. Womanly women are here to stay, for women everywhere have come to realize that abnormalities have no real place anywhere in nature.

DEBORAH.

EARLY SPRING VEGETABLES. No. 15,

BY MRS. ALTA L. LITTELL.

First among the vegetables which the ousewife may call upon in the early spring, when it is so hard to know what to serve, is asparagus. This comes in at that trying season of the year when the warm spring days make us turn from the winter vegetables, and as yet it is too early for the farmer's wife to go to her

garden for peas, beans, corn and the like.
Asparagus is most frequently served with a white sauce, though the boiled asparagus may be simply dressed with butter. In preparing it for cooking, all tough fibrous parts of the stalk should be rejected and only the tender ends used.

Always remove the scales before cooking, the one for the lambrequin at the ex-Have You Missed the A favorite dish in many homes is made treme top of the casing. The curtains by pouring creamed asparagus over toast, should fall straight, and the lambrequin If the toast is very dry and hard pour should slightly overlap the top of the curon boiling water to soften slightly, but tains. It may be straight across the botdo not allow the toast to stand in the tom, or shaped to suit the fancy. water and become soft,

many a housekeeper's schedule, and the figure, and cutting the size to fit the there are many things which the country top of the bed. Make a gathered flounce woman can utilize in this way. The city with a neat hem at the lower edge and dweller must content herself principally arrange for a standing heading at the with spinach and young beet tops, while top. Join this to the top portion of the she who lives outside, and has time, may spread. Slit the two lower corners so the gather dandelion greens and many others flounce will fall smoothly around the posts known to country housewives. Of course at the foot. Make or buy a bolster and there are many who refuse this dish with cover with cretonne to match the spread. scorn, but they are useful in furnishing A soap or baking powder box may be water and salts to the system.

greens for cooking is one cause of their cent hinges, padding the top with pieces leaves washed thoroughly through three sides of the box and paper the inside or four waters. Do not use too much line it neatly with thin cloth. water in cooking. For old spinach and dandelions allow about two quarts of water to a peck of greens. Young spinach is better if no water is added. Put it where it will heat through slowly and boil it in its own juices.

After a rain storm, the lovers of mushrooms may often be seen out in the fields through the Home Queries Exchange of
looking for their favorite dainty. If you
are sure you know an edible mushroom

Dear Editor:—Will you kindly tell me
through the Home Queries Exchange of
your paper a good recipe for making
cheese; also, what is used for coloring the
cheese?—Mrs. L. K., Lake View. from a poisonous one, this practice is all ones sometimes pluck the poisonous vari- ized wash tub. The tub would be best, as

what overrated. However, they do conwhen served alone or with other foods, hoop as meat, cheese or tomatoes, they form A

Canned mushrooms are sold, but like much more convenient. every other canned food, are not so sat-

A DAINTY BEDROOM-HANGINGS AND at the end. SPREADS MATCH PAPER.

BY E. E. R.

reau scarf this spring, why not make the new ones of cretonne? This, to use the can be purchased at most drug stores. fashion writer's phrase, is the 'l'ast word' in smartness, and besides, the fad is very much cheese I would advise sending to a practical and artistic. Select a pattern of cretonne to harmonize with your wall paper. If you paper the bedroom this spring, so much the better, for the wall paper houses sell cretonne to match their Indeed, whole sets of cretonne including curtains, bedspread, cover for toilet table, shirt waist box and chairs, cheese color, as the annatto in butter

are quite the thing. If the room is of convenient size for a couch, it, too, may be covered with the popular fabric.

In arranging your curtain use the lambrequin effect. Use two poles, placing the one on which the curtains are to hang even with the top of the upper sash and

For the bedspread seam two lengths of "Greens" play an important part in the cretonne together carefully, matching

converted into a pretty shirt waist holder The trouble one must take in preparing by hanging the cover with a pair of ten disfavor with cooks. Each leaf must be of an old quilt and covering with the carefully gone over for insects, and the cretonne. Tack a flounce around the

HOME QUERIES EXCHANGE.

To make a small quantity of cheese at right, but so few people are sure, and so home, I would recommend the following many who think they can tell the eatable outfit: A new wash boiler or a galvanety, that it is far safer to buy your mush- the bottom has a rim at the edge which rooms unless you cultivate them yourself. would aid in heating the milk gradually Mushrooms are declared by some to be as the bottom of the tub would not rest

Have the tinner make a tin cylinder rooms contain but three and a half per eight inches in diameter and ten inches cent, it seems that the vegetable is some- high, with a number of small holes in the sides-for the escape of whey-and a close tain a certain amount of nourishment, and fitting wooden follower. That makes the

A dish pan with a strainer, six or eight a palatable and nutritious dish. In clean- inches across, in the bottom for draining that old-fashioned habit of wanting to ing, wipe with a damp cloth, as soaking the curd. In place of the strainer, a piece lean on some man, and how can a strong in water removes the flavor. Remove the of cheese cloth could be placed across slats of a table, but the strainer pan is

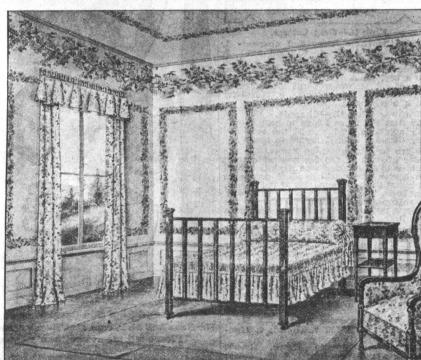
> For the press, a heavy stone or other weight can be used, or a lever arranged across the top of the hoop with a weight

For cutting the curd, a long slim knife, or better, a wooden paddle two feet long, two inches wide, half an inch thick with If you need a new bedspread and bu- beveled edges.

A glass thermometer costing 25 cents

If Mrs. L. K. expects to make very supply house for a gallon of rennet exand four ounces of cheese color. tract That would make 300 ten pound cheese. The next best plan is to purchase at a drug store a small bottle of butter color and a box of "junket" tablets.

Butter color is not so good as regular



Curtains, Bedspread, Couch Covers, etc., Having Same Design as Wall Paper Give Very Pleasing Results.

Womens' Power Over Men



Woman's most glorious endowment is the power to awaken and hold the pure and honest love of a worthy man. When she loses it and still loves on, no one in the wide world can know the heart agony she endures. The woman who suffers from weakness and derangement of her special womanly organism soon loses the power to sway the heart of a man. Her general health suffers and she loses her good looks, her attractiveness, her amiability and her power and prestige as a woman. Dr. R. V. Pierce, of Buffalo, N. Y., with the assistance of his staff of able physicians, has prescribed for and cured many thousands of women. He has devised a successful remedy for woman's ailments. It is known as Dr. Pierce's Favorite Prescription. It is a positive specific for the weaknesses and disorders peculiar to women. It purifies, regulates, strengthens and heals. Medicine dealers sell it. No honest dealer will advise you to accept a substitute in order to make a little larger profit.

It Makes Weak Women Strong Sick Women Well

Dr. Pierce's Pleasant Pellets regulate and strengthen Stomach, Liver and Bowels.







side of meta, pill or tip over, will not soil or injure anything. Guaranteed effective. Of all dealers or sent

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Dr. Steagall's Asthma Remedy PROMPT, SAFE and SURE. Nothing else fered like it. Write for booklet "FREE AIR" to H. MILLAR REMEDY CO., 214 St. Helens Ave. Tacoma, Washington.

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FARMERS—If you have wool for sale or to make into any description of pure fleece wool goods, write WM. LAMBERT, Woolen Mills, Reed City, Michigan, for samples and particulars.

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JUST SYY "Saw your Ad. in the railchigan Farmer" when writing to our Advertisers.

color is made up with oil and does not mix well with the milk. In fact, the color adds nothing to the value of the cheese and in many factories is not used at all.

For ten pounds of cheese use twelve gallons of milk. Place the milk in the tub and warm it to 85 degrees. Remove from the stove, add a quarter of a teaspoonful of the cheese color or 10 drops of butter color, stir in well. The second day increase or decrease the amount to get the color desired in the cheese. Next add three teaspoonfuls of rennet extract for the twelve gallons of milk, or three junket tablets to each gallon of milk. The rennet atract or tablets must first be mixed with a pint of water not warmer than 70 degrees. After adding the rennet to the refuse will do away with the bad odor .milk stir carefully for two minutes, then M. G. W let it stand without stirring or jarring until the milk is firm, which will be about 25 minutes. When the curd will break clean in front of the finger when inserted into the curd it can be cut carefully lengthwise and crosswise, with the wooden paddle. Next stir the curd with the handle loosening it from the sides and bottom of the vat. Now cut again with the paddle if necessary to have the curd in pieces about half an inch square.

By this time the whey will be separating from the curd. The heating can be done either by placing the tub over a sack, which breaks easily. Put everything slow fire, or by dipping off a portion of possible in glass cans or baking powder the whey, heating it and pouring back cans and label.-Reader. onto the curd. Either way, the curd should be gradually heated—taking about 30 minutes to 100 degrees. Hold the temperature at about 100 until, when a double handful of curd is pressed dry in the hands and the pressure released the curd will readily and quickly fall apart. It will also have a clear squeak when chewed between the teeth. It is now the heat.-M. A. P. ready for drawing off the whey. As the curd settles to the bottom much of the whey can be dipped off. The balance of the whey and the curd can be dipped into starch. Bathe the skin, and powder on the draining pan. When the whey has lightly, for baby and the invalid. Boric all drained out add four ounces of dairy acid is a white powder and can be bought salt to the curd and stir well.

Lay a cloth ten inches square on a flat board, place the cheese hoop on it, dip in the curd, and put on pressure. After the cheese has been in the hoop one-half hour take the hoop off by lifting it up, and bandage the cheese. The bandage-made from cheese cloth—is in the form of a cylinder just large enough to slip over the cheese and long enough to double over an inch at each end. A cheese eight inches in diameter and eight inches high requires for bandage a piece of cheese cloth 26½x10 inches. The 26½ inches allows for seam, in dressmaker language. On the ends of the cheese place circular cheese cloth, return cheese to pressother end up, and leave until following morning. In place of the circular cloth on ends of the cheese, a little butter or lard rubbed on the next morning, can be

The cheese should be "cured" for 15 to 30 days in a room of about 70 degrees temperature, and turned over each day. A little practice will put one on the right road to cheesemaking.

Two important rules are: Don't let the milk get too ripe before setting, and don't let the curd get too firm before

E. A. HAVEN, State Dairy and Food Inspector.

House Plants Bothered with Flies.

Dear Editor:—My house plants are covered with small black flies. I have done everything to get rid of them. Will you please tell me through the columns of your paper, what to do? Aiso, when the border of a paper is a continuation of the pattern where should the molding be placed if used?—Inquirer, Clarkston.

A prominent florist advises as follows regarding the plants: Sprinkle thoroughly with water until every part of the plant is wet; then shake over it tobacco dust, which may be purchased at any good seed store. This, it is claimed, will drive the flies away. In the modern, lowceilinged houses the molding should go to the ceiling. If you have an old-fashioned tenfoot ceiling, run the border just below the molding. This way takes off from the height of the room, but makes it look larger. Tint the ceiling and drop if you wish the latest effect.

Pork Cake.

Take one pound of salt pork chopped ine, boil a few minutes in half pint of water; one cup of molasses, two cups of sugar, three eggs, two teaspoonfuls soda, sinnamon, cloves and allspice to taste, or instead of allspice nutmeg if preferred, one pound of raisins chopped fine, flour to the country of the co 3. T.

SHORT CUTS TO HOUSEKEEPING.

This department is opened as a means of exchange of new and successful ideas in homemaking. If you have learned something in cooking, sewing, child raising, fancy work, economy, anything which is helpful, and new, send it in. Twenty-five cents will be paid for every article used, but none will be returned. Keep your suggestions short.

Pour water on your onions when cleaning and they will not smart your eyes .-

Salt thrown in the fire when burning

In making little girl's dresses that will need lengthening some time, allow for a tuck on underside of hem, and run it in by machine, using a long stitch. Then, instead of having to let down hem and face, it will take you but a few minutes to take out tuck, and press .- T. F. C.

Rub a hot flatiron over the inside soap wrapper. It will clean the flat nicely .-

I find it convenient to put dry oatmeal in a box that a cold breakfast food came It is easier than leaving it in the in. sack, which breaks easily. Put everything

In washing lamp globes, if they are first washed in warm soap and water then rinsed in cold water and placed or top of the range until the moisture is gone, they will need little polishing and will be found to have a fine lustre. The globes will not crack if first placed on the back of the range until tempered by

An antiseptic and healing powder for chapped skin is made of one tablespoon of boric acid to three tablespoons of corn acid is a white powder and can be bought of any druggist .- Mrs. M. F.

When grease is spilled on the floor try dashing cold water over it once. It cools the grease and prevents it spreading or farther penetrating the wood.-Mrs. L M. L.

If your carpet must be patched, instead of sewing it on make a stiff paste. Paste down the patch, after which iron slowly with a hot iron. It will not come off and looks much better than when sewed on .-



No. 4886—For general wear no model could be smarter or more appropriate than the design shown. The general outline at once recommends it to the home nake stiff batter. Bake slowly.-Mrs. J. Address orders to MICHIGAN FARMER, Detroit, Mich.

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In this double-bar model you get coaster brake, puncture proof tires, twin roller chain, 45 position handle bar, "Comfort" Spring saddle, bell, tools and kit, telescopic pump, detachable mud guards, etc., the easiest riding and most durable bicycle you can buy at any price.

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FARMERS' CLUBS

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.

YEARLY PROGRAMS

The last yearly program of a club to be received is the program for the Ingham County Farmers' Club, for 1910. It is more condensed than some of the programs previously described, although it is quite complete in character, containing everything essential to such a convenience for reference. Aside from the date and name of the club, the cover page bears the announcement that the regular meetings are held on the second Saturday of each month and that no club meeting occurs in July. The inside cover page contains a list of the officers. The title page the name of the club and date. The succeeding pages are devoted to the programs for the monthly meetings, two being published on each page, the subject of papers and discussions only being given in the program. The farms of the mem-bers are, many of them, named, the name of the farm appearing with that of the host in the announcement. The March meeting was a temperance meeting. Soldiers' and Pioneers' day is observed in September, while the November meeting is designated as "Woman's Day." The last page is devoted to a list of the standing committees, completing this concise. yet convenient and comprehensive program of the club, which has the honor of being the oldest of any in the state.

CLUB DISCUSSIONS.

Adopt Yearly Program.—The East Otisco Farmers' Club met at the home of Mr. and Mrs. Wm. Beach, May 5. After dinner the meeting was called to order by R. S. Halkins, in the absence of the president. Mr. O. A. Nummer gave a talk on "In what way are the labor unions beneficial to the laboring classes," which was discussed by those present. Mrs. S. D. Chickering gave a recitation and Mrs. M. L. Howe read a paper, "Our Friends." Both were enjoyed by the members. Mr. R. L. Hawkins gave a talk on "What I saw on my travels," which was very interesting. He had a number of post cards of scenes he visited on his trip through the west last year. Programs for the year were passed out and the meeting adjourned to meet June 2 at 9:30 a. m., at the home of Mr. and Mrs. C. V. Cooper.—Mrs. J. F. Kohn, Cor. Sec. Pro Tem.

Pro Tem.

Adopt New Entertainment Plan.—The April club meeting of the Norvell Farmers' Club, held with C. P. Holmes on the afternoon of the 30th, while not largely attended was greatly enjoyed. All the departments about twice each year, the first members of the membership into about five classes, each of which furnishes the refreshments about twice each year, the door and possible of the Norvell Farmers agricultural fair which, while being under the which, while being under the winch, while being under the supervision, would be open to any resident of the county who cared to compete. Several very successful Subordinate Grange fairs have been held in the county, but this move was needed to include the entire county in the table and it was voted to adopt the Grass Lake plan and Mrs. Wm. Ray was appointed a committee of one to carry it into effect. This plan involves the dividing of the membership into about five classes, each of which furnishes the refreshments about twice each year, the

than when he was under the parental roof.

The Cost of Living.—A. R. Palmer thought it true that it is the cost of high living that makes it hard times for those that find it so, and yet it is probably not desirable that the standard of living be lowered. L. D. Watkins said that it is what we buy that makes living hard. We can save much in this direction if we try. T. B. Haladay said that if it is good times for the farmer it ought to be good times for the other fellow. "If the farmer gets but 35c out of the dollar that the consumer pays for his products the middleman and the transportation companies ought to do well on what they get. I have long thought that they were getting more than their share. Workmen who get \$3:50 for seven hours work or \$5.00 per day, as masons do in Ann Arbor, are getting more than the farmer does."

GRANGE

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

THE MAY PROGRAMS.

Suggestions for Second Meeting,

Roll call, responded to by quotations or remarks about the spring season.

progress in legislation has been for: 1. Parcel post. 2. Postal What made for:

Recitation In the Home—III. Harmful bacteria.
Duet.
Recitation.

Hectiauon. How market eggs to best advantage. Songs and recitations, relating to the pring season, in charge of Lady Assistant Steward.

POMONA GRANGE FAIRS.

About two years ago an effort was made by Kalkaska Pomona Grange to hold an

amount and kind being prescribed by the committee.

Hard Times and the Farmer.—The topic, "Is it necessarily hard times for good farmers?" was taken up by C. P. Holmes who denied that they were having a hard time. They work hard and for long hours truly, but many in the city do the same. It is difficult to get good help and we have to be satisfied with a smaller production in consequence. It has been suggested that it is not the high cost of living that makes hard times for many. If we lived as our grandfathers did and with as little as they had, we should have more money than we could use.

What is a "Good Farmer?"—T. B. Halladay asked "What is a good farmer?"
To be such his farm must show the results of labor and to effect this the farmer must keep everlastingly at it. To such the times are not hard. To sustain the body is so easy that we scarcely think of it. The good farmer must conserve the moisture which we can only do by stirring surface soil and doing so he insures good crops. Wm. Ray agreed that it was good times for the farmer now. Clyde Beckwith finds it harder work to live now than when he was under the parental roof.

The Cost of Living.—A. R. Palmer thought it true the cast of history.

County fairs were open to exhibitors. This first fair was such a success that, spurred on by the enthusiasm manifested by all those who attended, steps were immediately taken by Pomona Grange toward the holding of another fair the following year on a larger scale.

This second fair was a grand success in every way. With the appropriation allowed the Pomona for the purpose of holding a county agricultural fair in 1909 we were able to offer various cash premiums, because the times are not hard. To sustain the body is so easy that we scarcely think of it. The good farmer must conserve the moisture which we can only do by stirring surface soil and doing so he insures good crops. Wm. Ray agreed that it was good times for the farmer now. Clyde Beckwith finds it harder work to live now than when he was under the parental

While Kalkaska county has not held a county fair for several years, the showing made through the efforts of Pomona Grange, and the loyal support of practically every farmer, business man and other residents of the county would seem to assure the continuance of this plan and a good live county fair each year. That the fair should be continued another year under the management of the Pomona Grange was the almost unanimous opinion of both farmers and business men of the county. Officers were elected early and plans have been laid for a larger and better fair for 1910.

The smaller fairs held by individual Granges are a fine thing, an effort along the right line, but why not combine our efforts and instead of several one-day or, as is often the case, only evening fairs, have a good rousing two or three day Pomona fair, particularly in counties not already supporting agricultural fairs? good fair of this kind held annually is one of the very best advertising mediums which any county can boast, and the larger its scope the greater will be the benefits naturally arising therefrom. is certainly to the interests of every farmer to maintain such fairs, and the Grange, moreover, should not be backward in taking an active hand in matters that are of such vital interest to its members W. S. PALMER. Kalkaska Co.

Another in Jackson Co.—Deputy John Wilde organized another Grange last week, this time at the Clement school, in the center of Leoni township, Jackson Co. The Grange starts with 44 members and the following officers: Master, Charles H. Freeland; overseer, Jennie Ballard; lecturer, Eva Cooley: steward, Floyd Cole; ass't steward, B. J. Freeland; lady ass't steward, Grace Hill; chaplain, Pearl Cole; treasurer, B. D. Hill; secretary, J. D. Ballard; gate keeper, Jacob Cooley; Ceres, Ivah Covey; Pomona, Catherine Sweet; Flora, Lavina Madden.

GROWING CHILDREN

The Period when the Nervous Activity is at Its Greatest.

"Against the practice of giving tea and coffee to children, we cannot speak too strongly. Childhood is the period when the nervous activity is at its greatest. The brain is ever busy receiving new im-Reflex action, co-ordination pressions. of muscles, and the special senses are all under a special course of training.

"The nervous system is pushed to its utmost capacity, and long is the list of victims that follow its over-stimulation. In these little people nothing but harm can come from the use of such cerebral stimulants as tea or coffee. Bad, then, as this practice is, let us as physicians be aggressive in its prohibition.

"Do not be satisfied by answering 'No' when asked as to their use, but let us teach the families with whom we come in contact that such practice is evil. We speak emphatically, because not only among the poor and uneducated, but among the rich, who should know better, this practice is marvelously prevalent."-The Home Doctor.

Children like a warm beverage for breakfast and it is well for them to have it if the drink is a food and not a drug.

Postum is made to supply a rich nourishing liquid food with a crisp coffee taste for those who cannot and should not use coffee. Analysis shows it to contain about fourteen per cent of muscle-forming elements and 66.11 per cent of energy and fat-producing elements, which go to nourish and sustain the delicate nerve centres throughout the body and from which the vital energy proceeds.

The success of child or adult depends largely upon proper sustenance for the body. Children who depend upon the intelligence of their elders to furnish them with good food deserve our most careful attention and thought.

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

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

for the purpose. Your market better than your farmers will proque the supplies. Wheat can be grown up to the 60th parallel [800 miles north of the International boundary]. Your vacant land will be taken at a rate beyond present conception. We have enough people in the United States alone who want homes to take up this land." Nearly

70,000 Americans

will enter and make their homes in Western Canada this year.
1909 produced another large crop of wheat, oats and barley, in addition to which the cattle exports was an immense item.
Cattle raising, dairying, mixed farming and grain growing in the provinces of Manitoba, Saskatchewan and Alberta.
Adaptable soil, healthful climate, splendid schools and churches, and good railways. For sottlers' rates, descriptive literature "Last Best West," how to reach the country and other particulars, write to Sup't of Immigration, Ottawa, Can,, or to the Canadian Government Agent.

M. V. M.Innes. 176 Jefferson Aye..

M. V. McInnes, 176 Jefferson Ave., Detroit, Mich.; C. A. Laurier, Mar-quette, Mich. (Use address nearest you.)

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Let Me Start You in Business I I will furnish the advertising matter and the plans. I want one sincere, earnest man in every town and township. Farmers, Mechanics, Builders, Smell

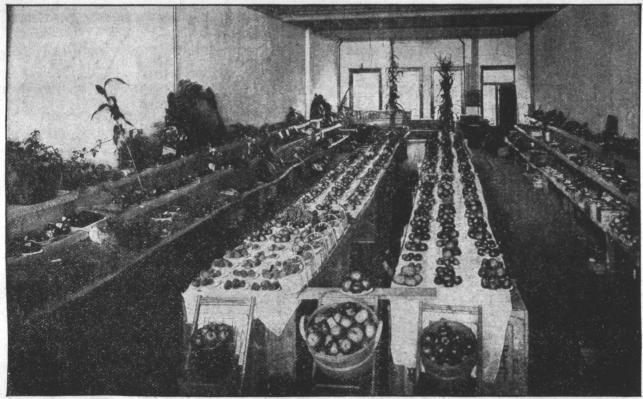
Wanted-Agents to sell Farmers' Account Book.
Quick sellers, big inducements, e-clusive territory. Address L. L. SYPHERS, Ft. Wayne, Ind.



Beat Everybody Catching Fish Get a box of Marvel Fish Lure and a Patent Marvel Automatic Hook. Write for Special Free Balt & Hook Offer now and help introduce them. JAPANESE NOVELTY Co., Dept. 39, Clinton, Ia

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Inventors: Send 6 cts. for our Valuable Patent Books
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Portion of Fruit and Vegetable Exhibit Seen at Last Season's Successful Pomona Grange Fair in Kalkaska County.

\$6,000,000 **Could be Saved**

Lightning does over six mil-lion dollars damage every year. Your property is liable to be a part of this loss unless you insure against it by using good light-

ning conductors.
Science shows that no metal (except silver) excels pure soft copduct electricity. Hence, pure soft copper is the only safe metal to use. Hard copper is not so good a conductor, so it is not enough to buy merely a copper rod. You must be sure it is pure soft

Every cable bear-ing the word "Na-tional" is guaran-teed to be made from pure soft cop-

per-the finest we or anyone can buy.

Write

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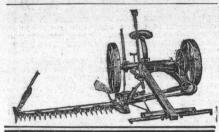
is woven flat to still further increase the conducting capacity and to do away with side flashes and induced currents. No joints to fuse, come apart or resist conduction.

National cables both flat and round-we make both-are on many thousands of buildings today and every foot is covered by a perpetual guarantee in writing. Look for the Little National Tag and the word "National." None genuine without it.

If your home is already rodded, write anyhow for full information as to protecting your telephone with the National Automatic Telephone Lightning Arrester (patent ending)the original and only effect-Automatic Arrester on the rket. Write for price.

We want a reliable representative

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A Strong, Simple Mower That Cuts Clean and Easy

The longer the lever, the heavier load you can lift. You can liken each spoke in a mower wheel to a lever This is the principle to which the Dain, with its high, broad-gauged, wide rim wheels, long pitman and com, pensating gears, owes its remarkable light draft and its tremendous cutting power.

Season in, season out it cuts over all kinds of ground and goes through heaviest grass without choke-downs, breakage or trouble of any kind. The gears are compensating—neither work out of mesh nor wear apart. Has the strongest braced cutter-bar, too, with a protected Pitman that gives a long, unerring stroke, applying power direct to cutter-bar without lost motion.

Is strong where others are weak. The Dain is the

Is strong where others are weak. The Dain is the only mower in which the cutter-bar can be re-aligned at a moment's notice. A monkey wrench does the business in a jiffy.

Vertical

A boy can lift cutter bar right from the seat by hand, foot or both at once. Trees, stumps, stones, etc., can easily be passed—and you never have to back up-with a Dain. This mower is built of few parts, is so simple in construction that any one can operate it and it's dur-

Dain Hay Tools Make Biggest May Profits

After hay is cut with a Dain mower, it can best be cured and handled by Dain rakes, loaders or stackers, because like the mower, these machines are built by specialists who for 25 years have been making successful hay tools that get the biggest value out of hay.

If your dealer hasn't this remarkable Dain



mower, send your name, tell what tools you are interested in and complete information, and a valu-

able book
"All About Hay"
will be sent to you by DAIN MFG. CO. OTTUMWA, - 10WA

YOUNG MEN WANTED — To learn the Veterinary Profession. Catalogue sent free. Address VETERINARY COLLEGE, Grand Rapids, Mich. 42 LOUIS STREET.

(Continued from page 542).

over the rights of fishermen in Newfoundland waters, will leave Friday of this week for the Hague where the matter is to be presented before the Hague tribunal. Should the judges declare in favor of the right of Newfoundland to restrict the rights of aliens to fish in her territory as per the treaty of 1818 then that same right will be extended to every other country concerned in the compact, the far reaching effects of which can only be conjectured. Both England and America will await the decision with concern as it involves the question as to whether a country can curtail rights conferred upon an alien by treaty.

Sharon Springs, a small village of western Kansas, was nearly destrayed by a tornado which swept through that section Monday.

The extradition move on the part of the

Monday.

The extradition move on the part of the prosecuting attorney of Hudson county, N. J., to bring the Chicago packers before the courts of the county upon charges of conspiring to enhance the price of meat, has been stalled by the refusal of Gov. Fort of that state, to grant the requisition. The ground for the refusal is that the evidence set forth is insufficient.

It is unofficially announced that Ex-Vice President Fairbanks, of Indiana, is to be appointed ambassador to the court of St. James to succeed Whitelaw Reed, present ambassador of America in Great Britain.

present ambassador of America in Great Britain.

The reports of the senatorial primaries in Florida indicate that a second election may be necessary to make a choice. The present encumbent, Senator Taliaferro, is

present encumbent, Senator Tallaterro, is leading thus far.

Much damage has already been done and grave apprehensions are held by settlers of northern Minnesota, Wisconsin and Michigan, lest fires become general owing to the dry weather prevailing. Recent small showers have quieted the flames temporarily, but cut over lands need to seaked by heavy storms before danger soaked by heavy storms before danger

be soaked by heavy storms before danger is past.

I' is asserted that New York brokers who are defending a suit brought by the government, have declared that they will go to jail rather than show their books relating to transactions in cotton, it being alleged that the brokers were parties to a pool organized to corner that product.

Last Thursday the warship Florida was launched at the New York Navy Yards. This is one of the dreadnaught type of battleships and is the largest ever launched in this country.

Thousands of men are working in the ruins in Costa Rica. Over 800 bodies have been taken from the debris caused by the recent earthquakes. Lighter shocks have been felt in the past few days.

Arbitrators have awarded the employes of the Michigan United Railways an advance in wages of one cent per hour.

The state has brought an action against the Western Union Telegraph Company for unpaid taxes, the company claiming they have been over-asseed.

Dr. Hyde, of Kansas City, was found guilty of murdering Col. Thomas H. Swope by poison and was sentenced to life imprisonment. The jury balloted for nearly three days before reaching a verdict.

The legislature of Rhode Island has

verdict.

The legislature of Rhode Island has passed a law prohibiting the employment of any person under 16 years of age.

In the future the qualifications of Indians seeking the privileges of citizenship will be under the supervision of a board appointed by the commissioner of Indian affairs.

CROP AND MARKET NOTES.

Iosco Co., May 12.—May started in with pleasant, sunny days and cold, frosty nights. At the present writing we have had five heavy frosts in May, which no doubt will do some damage. The month also started pretty dry, just about as dry as we can stand it. Spring-sowed grain all looking fine. Many farmers are engaged in getting their corn ground ready and planting. Market quotations: Eggs, 20c; butter, 25c; potatoes go begging at 10@15c a bu; pork, 14@15c per lb.; horses and cattle very scarce and high.

Genesee Co., May 14.—Weather continues cold and vegetation is progressing slowly. Heavy frosts for several nights past. Oats looking well, aside from an occasional instance where the soil is not drained. Grass promises heavy yield. Wheat has not done very well owing to dry weather after the snow went off. Some corn has been already planted and many are all ready and waiting for a few warm days before planting. Sugar beets where early sowed, are not doing very well, the soil having been too cold and wet. Thousands of bushels of potatoes held over are still in farmers' hands and the loss in this direction will undoubtedly be heavy, as the price last fall was much higher than now. Considerable hay remains unsold also. Prices on nearly all farm products lower than a few weeks ago. Farm lands are changing hands freely at prices ranging from \$60 to \$100 per acre. Help as scarce as ever, and good wages offered.

Livingston Co., May 9.—The first week of May was very wet and cold which re-

per acre. Help as scarce as ever, and good wages offered.

Livingston Co., May 9.—The first week of May was very wet and cold which retarded farming operations considerably. Three heavy frosts last week damaged that greatly theyer probably made as Three heavy frosts last week damaged fruit greatly, though probably not as much as was at first thought. Farmers are rushing the work of fitting corn ground. No corn planted yet, wheat and clover have made a good growth. Farmers are not shearing their sheep as early as usual on account of the cold weather. No wool being marketed yet; price not very satisfactory. Prices of good farms have changed hands at high prices. Market quotations are: Wheat, \$1.03; beans, \$1.80; rye, 73c; corn, 63c; oats, 37c; butter. 27c; eggs, 18c.

Shiawassee Co., May 10.—Weather moderate, accompanied with low temperature at night. Frost of severe nature on low lands. Fruit is somewhat injured, but at present cannot be determined just how much. Farmers are busy plowing and preparing corn land. The late rains have retarded many farmers from working land

on account of being too wet. Wheat is recuperating wonderfully from the hard setback early in the spring. If conditions are favorable from now on the outlook is very good for a fair crop. Barley and oats are doing well, but suffering some from too much wet weather. The usual acreage of beans will be planted. Many farmers have abandoned the sugar beet crops on account of low prices paid by erops on account of low prices paid by factory. Potato growers are discouraged with their crop last fall and will cut down acreage this spring. The hay crop is looking fine and bids fair to be the banner crop of the season. Very few hogs in the country. Horses are still changing hands at good prices. Farmers are turning their

crop of the season. Very few hogs in the country. Horses are still changing hands at good prices. Farmers are turning their attention to dairying and consequently good cows are selling high.

E. Clark and West Marathon Co.'s, Wis., May 14.—Weather conditions are not very favorable for farming since April 16, when our summer weather turned into the mid-winter kind, doing much damage to growing crops and especially fruit trees, and the night frosts since the 16th of April make gardens look sick. Potato and corn planting is about completed but the dry and cold weather keeps it from coming up. Several well improved farms were sold at prices from \$50 to \$75 per acre and auction sales are \$50 to \$75 per acre and auction sales are in order. At such sales some grade Holstein and grade Guernsey cows were sold at \$65; all sold above \$50. Pasture is in fair condition. Milk brings good prices. Cheese sold at 14½c; creamery butter, 27c; dairy, 22@25c; eggs, 19c; wool, 25c.

FRUIT DAMAGED.

We are informed through our Grand Rapids office that considerable damage has been done Michigan fruit by frost during the past few nights. Mr. Bassett, secretary of the State Horficultural Society, states that it is impossible to say yet the extent of damage done, although strawherries are known to be pretty well strawberries are known to be pretty well destroyed. Peaches and apples are hurt

Robert Graham, of Kent county, states that heavy damage has been done all fruit in the vicinity of Grand Rapids, except where protected by favorable locations. Strawberries are nearly all gone. Cherries, 75 per cent killed. Peaches and apples are still hopeful, although in many places peaches are badly killed.

Dr. E. H. Ryno, an authority on fruit and an old grower, reports strawberries that blossomed early, and cherries, principally lost. Peaches are badly used up. About 25 per cent of a crop of apples are saved.

saved.

Other sources indicate general damage which argues that those having fruit that is safe should take the very best care

CATALOGUE NOTICES.

The Leader Iron Works, Decatur, Ill., manufacturers of the Leader Water Sys-tem, are sending out a handsomely illus-trated catalogue fully describing and exair pressure system and its utility in the farm home

This Ad and Get My Big FREE Book and Save \$50

Buy direct from the biggest spreader factory in the world—My price has made it—Savedealer jobber and catalog house profit. No such price as I make on this high grade spreader has ever been made before in all manure spreader history. Here's the secret and reason: I make you a price on one based on a 30,000 quantity and pay the freight right to your station. You only pay for actual material, habor and one small profit, based on this enormous quantity on a

price ever made on a first class spreader, "agreement to pay you back your money after you try it 12 months if it's not a paying investment. How's that for a proposition! If I did not have best spreader I would not dare make such an offer, 40,000 farmers have stamped their O. K. on it. They all tried it 30 days free just like I ask you to try it—30 DAYS FREE. Five Sizes—including New Complete Steel Cear Spreader—70-bu. Size.



BREEZE 7 Handsome Models \$275 Motor Vehicle with ease and comfort And Up The Breeze is strong, simple; speedy and safe, Best motor vehicle built for country roads—mud, deep sand or high films. 13-18 H-P. christes. Lowest cost of up-keep, least, tire trouble; Handsomely finished.

THE JEWEL CARRIAGE CO. CINCINNATI, OHIO SEND FOR CATALOG "5"

FARMS AND FARM LANDS FOR SALE OR EXCHANGE

FOR SALE—Select corn and other lands in South-ern Michigan. Write now for list. The Ypsilanti Agency Co., Inc., Ypsilanti, Mich.

OLD VIRGINIA FARMS FOR SALE.
Send for Free Illustrated Catalog, largest list in
Virginia. CASSELMAN & CO., Richmond, Va.

MICHIGAN FARMS—Fruit, grain and stock spiendid climate, water, roads and schools. Write for list No. 3. C. R. BISHOP & Co., Hastings, Mich.

FOR SALE-41-acre farm at \$55.00. Half mile of village, clay loam heavy upland soil, nearly level, 8-room house, barn, etc. G. M. MADDEN, Constantine, Michigan. Delaware Farms—Delightfull climate; productive soil; best markets; the ideal farming country;

McDANIEL & McDANIEL, Dover, Delaware. FOR SALE FARM—308 acres, 50 acres timber, 50 pasture land, balance clear. Would make good stock and grain farm, 10-room house, two barns, 1n Cass Co., Mich. For particulars address, Henry F. Rine, Bristol, Ind., R. B. No 1.

FOR SALE—High Grade Farm Lands in Osceols county near Tustin, Michigan. These are cut over hardwood lands, without pine stumps. The soil is gravelly or rich clay. Well settled country with schools and good roads. Write for literature.

H. W. MARSH, Manistee, Mich.

WHY PAY RENT the Best Land in Michigan at from the saginary and Bay City. Write for map and particulars. Clear title and easy terms. Staffeld Bros., (owners) 15 Merrill bidg., Saginaw, W. S., Mich.

FOR SALE CHEAP THE FINEST of unimproved Clare Counties. 23,00 acres, 40 acre tracts or more. Suitable for growing all the farm crops or fruit. Fine stock lands, well grassed over, pure living water. Payments easy, 6 per cent interest account. Write us for maps and folders. A. J. Stevens & Co., Gladwin, Mich.

MINNESOTA

HAS 1,000,000 ACRES open for HOMESTEAD ENTRY, offers CHEAP LANDS and farm employ-ment. Write for literature and full information, STATE BOARD OF IMMIGRATION, Room 269, State Capitol, St. Paul, Minnesota.

BUY A FARM in the fertile Saginaw Valley of Mich. Pay for it quick raising sugar bets, Farmers are making money here. We've a good list. Write today. UNITED REALTY CO., Case Block, Saginaw, Mich.

FOR SALE—50,000 ACRES

Western Florida Pine Land

in amounts to suit. Good farm land; no swamps; railroad. Timber worth double price asked. Easy terms. H. G. Noel, 304 N. 4th Street, St. Louis, Mo.

Get Some Government Land

in Britsh Columbia, Canada, along the Grand Trunk Pacific Ralfroad. Level, cleared ready for the plow. Irrigation not required. Clitzens of U. S. may take from 40 to 640 acres at \$6.75 an acre. \$1 an acre down secures it. Address U. S. Office Prince Rupert Land Syndicate, Ltd., 705 Marion Bldg., Seattle, U. S. A.

Delaware County, N. Y.

Farms Income \$4000 In 1909

208 acres, wire fenced, 45 cows, spring watered pasture, 100,000 feet timber, cuts 80 tons hay; new 40-cow biarn, big wagon house, 12-room 2-story residence; 2½ miles to depot, creamery village; to close affairs quickly, if taken immeditely owner will tuclude 80 fine cows, 10 yearlings, 5 horses, hens, tools, wagons and improved potato machinery; \$7,300 takes all; haif cash, and easy terms. For traveling instructions see page 5, "Strout's Farm Catalogue, 2nd Edition." Other farmer from \$1,000 to \$10,000 to \$10,000

"The Hylands of Yamhill"

OREGON FRUIT LANDS in large and small racts. No bitzzards or crop-killing storms in the late spring. Ten acre apple tracts in the famous twillamete Valley at \$100 to \$150 per acre. Climate, soil, air and water drainage, unsurpassed. 50 miles from Portland on the Sauthern Pacific also on electric line survey. See Union Pacific for special June rates to Oregon. Write me today. C. T. PRALL, 925 Board of Trade Bidg., Pertland, Ore.

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

Fortunes are being made on fertile Tennessee farms. They raise big crops of Cantaloupes, Cabbage, Tomatoes, String Beans, Green Corn, etc., also Horses, Cattle, Sheep, Swine, Poultry and Eggs. Write me at once for Free Literature. I'll tell you how to get one of these splendid farms for \$5 to \$10 per acre. Act quickly! H. F. Smith, Tmf. Mgr., N.C.4 St. L. By., Dept.P. Nashville, Tenn.

OmetoVIRGINIA

Cheap lands, mild climate, short winters and good soils. Stock raising, dairying, trucking, poultry raising, fruit growing and general farming. No droughts, no blizzards. Write for valuable Handbook and full information to

GEORGE KOINER,



MARKETS

DETROIT WHOLESALE MARKETS.

May 18, 1910.

Grains and Seeds.

Wheat.—The trend of prices the past week was not altogether consistent with the causes that dealers hold are responsible for price changes, and the independence of the farmer is challenged as the real factor that is interfering. Bears had the news in their favor but they dare not sell, they say, because farmers do not have to dispose of their holdings to pay off mortgages, meet interest, etc., as was once the case, but are at liberty to hold over till another year if prices are not right. Rains have materially helped the spring wheat crop and in Kansas and Oklahoma where considerable plowing of wheat fields was reported there has been a decided improvement favorable to the crop. When satisfactory prices are offered farmers of both the northwest and southwest offer the grain liberally but declines are met with restricted deliveries. The Hessian fly is doing the bulls a favor. A year ago the price for No. 2 red wheat was \$1.49. Quotations for the week are:

No. 2 No. 1

Red. White. July. Sept. Grains and Seeds.

Red.	White.	July.	Sept.	
Thursday1.111/2	1.111/2	1.041/2	1.03 1/2	
Friday1.121/2	1.121/2	1.051/2	1.041/2	
Saturday1.121/2	1.121/2	1.051/4	1.041/4	
Monday1.12	1.12	1.041/2	1.04	
Tuesday1.12	1.12	1.0434	1.03 1/2	
Wednesday1.12	1.12	1.04	1.023/4	
G	horro w	ot hoo	n tha	

Wednesday ...1.12 1.12 1.02

Corn.—Conditions have not been the best for getting in the new crop and the trade has felt the situation to an extent that a material advance in values was made. There was a substantial decrease in the visible supply and deliveries at local elevators are not large. One year ago the price for No. 3 corn was 62c per bu. Quotations for the week are:

No. 3

No. 3	Yellow.
Thursday 64	65
Friday 64	65
Saturday 65	66
Monday 65	66
Tuesday 65	66
Wednesday 69	66
	Bull and the second

Oats.—This grain, like corn, advanced in spite of the steady condition of wheat. The supply is restricted and the influence of adverse weather conditions have encouraged the bulls to take a more firm stand for better values. One year ago the price for No. 3 oats was 62c per bu. Quotations for the week are:

																		K	La	muait	л.
Thursday																				451/4	
Friday																				451/4	
Saturday																				451/2	
Monday																				451/2	
Tuesday					6	 Ċ														451/2	
Wednesda	az	7													,					451/2	
							-	1-		_	Ω.		1			2	_	1	42		

		Cash.	Oct.
Thursday		\$2.15	\$2.05
Friday			2.05
Saturday			2.05
Monday			2.07
Tuesday			2.07
Wednesday			2.07
Claverseed Ti	ole trede	hon boom	200

ago. Quotations for the week are:
Prime Oct
Thursday\$6.50
Friday 6.55
Saturday 6.55
Monday 6.60
Tuesday 6.60
Wednesday 6.60
RyeTransactions are few. Marke

								Г]	his	week.	Last week
Wheat						,				22	,872,000	24,584,00
Corn										7	,780,000	9,300,00
Oats										7.	276,000	8,118,00
Rye .											559,000	585,00
Barley										2,	035,000	2,154,00

remains steady with last week. The deliveries are not heavy for the season and demand is good. A year ago the price for creamery was 3c below the present figure. Quotations are: Extra creamery, 27c per 1b; firsts, do., 26c; dairy, 21c; packing stock, 20c.

Eggs.—Although values advanced during the week they are a cent below last year's quotations for the same date. The receipts are not heavy and buying is active. Fresh eggs, cases included, are exchanged at 20c per dozen.

Poultry.—There is a tendency toward stronger prices. The offerings are very scarce. Demand is not large but is sufficient to keep values up and market firm. Chickens are higher; other kinds steady. Live.—Brollers, 25@26c; spring chickens, 18c; hens, 18c; old roosters and stags, 12@13c; ducks, 15@16c; geese, 12c; turkeys, 18@19c.

Cheese.—Michigan, late made, 15@15%c;

18c; hens, 18c; old roosters and stags, 12@13c; ducks, 15@16c; geese, 12c; turkeys, 18@19c.

Cheese.—Michigan, late made, 15@15½c; Michigan, fall made, 18@18½c; York state, 19@20c; limburger, Wisconsin, 17@18c; New York, 18@19c; bricks, 16@.16½c; Swiss, domestic block, 21c; Swiss loaf, 28c.

loaf, 28c. Calves.—Steady. Choice to fancy, 11@ 11½c; ordinary, 9@9½c.

Fruits and Vegetables.
Apples.—Steady and in good demand.
Spy, \$4@4.50; Baldwin, \$4@5; Steel red,
\$5; Greening, \$4@4.50 per bbl.
Cabbage.—Selling at \$2.75@3 per crate

for new.

Strawberries.—Per 24-qt. crate, \$2.75@3.

Vegetables.—Beets, 60c per bu; brussels sprouts, 25c per qt; carrots, 75c per bu; cauliflower, \$2.25@2.50 per bu; celery, 45@50c per doz; eggplant, \$1.50@1.75 doz; green onions, 10@12c per doz; head lettuce, \$2.50@3 per hamper; mint, 25c per doz; parsley, 25@30 per doz; radishes, 20@25c doz; spinach, 90c hamper; turnips, 50c per bu; watercress, 20@25c per doz; wax beans, \$3@3.50 per bu; pieplant, 25c per doz; asparagus, \$1@1.25 per doz.

OTHER MARKETS.

Grand Rapids.

Grand Rapids.

Receipts of fresh eggs are falling off a little as the season advances, which steadies the market and prevents any break in prices. Eggs are still worth 19c delivered here. Dairy butter has increased in supply, but prices show no material change, jobbers paying the country merchants 21@22c. Creamery butter is unchanged at 27c. The live poultry market is 1c lower all round, which makes quotations for stock delivered in Grand Rapids as follows: Fowls and chickens, ducks and turkeys, 15c; old roosters, 10c. Dressed hogs are steady at 11@11½c. In spite of the disastrous potato slump, the potato acreage this year will probably be large. Seed is cheap and some of the large dealers in the state are offering the farmers free seed and a contract price of 30c a bushel in the fall, or the prevailing market price, just as the grower chooses. Wheat is 2c lower while corn, rye and oats are 1@2c higher. Quotations follow: Wheat, \$1.06; corn, 66c; rye, 72c; oats, 46c; buckwheat, 55c. Beans have advanced a little; white peas, machine screened, being quoted on \$1.85 basis, while red kidneys are worth \$2.50 @2.75. The freeze of Friday night, May 13, caused much damage to fruit growers in this section. Strawberries, currants and all small fruits will be a small crop, while cherries, plums and other tree fruits have been hit hard.

Chicago.

THE MICHIGAN FARMER.

Buffalo.

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

Receipts of sale stock here today as follows: Cattle, 160 cars; hogs, 12,800; sheep and lambs, 16,600; calves, 2,100.

Receipts of cattle on our market today, 160 cars. Good to best cattle, weighing from 1,250 lbs. and up, were only steady with last Monday, quality considered. All the light and handy weight butcher stock sold strong last week, and active, as did cows, heifers and bulls, and in some instances 10@15c higher. Everything was well cleaned up by two o'clock. Stockers and feeders full quarter lower than last week.

well cleaned up by two o'clock. Stockers and feeders full quarter lower than last week.

We quote: Best 1,300 to 1,450-lb steers, \$7.65@8.15; good 1,200 to 1,350-lb. do., \$7.25@7.75; best 1,100 to 1,200-lb. shipping steers, \$6.50@7.25; medium butcher steers, 1,000 to 1,100 lbs., \$6@6.40; light butcher steers, \$5.25@5.75; best fat cows, \$6.50@7; fair to good cows, \$5.05.50; common to medium do., \$3.50@4; best fat heifers, \$7@7.50; good fat heifers, \$5.75@6.25; fair to good do., \$5.50@6; best feeding steers, \$5.25@5.75; medium to good do., \$4.25@4.450; stockers: all grades, \$3.75@4; best bulls, \$6@6.50; bologna bulls, \$5.50; thin light bulls, \$3.75@4.50; best milkers and springers, \$5.26@65; common to good do., \$2.26@45.

A few extra prime bulls sold for \$6.75 today, Good milkers and springers sold strong today.

With 36,000 hogs in Chicago today, and 12.800 here, and Chicago quoting hogs 10@20c lower than Saturday's high time, caused a weak and bearish feeling here; packers bidding strong 10c lower than Saturday's best time. Market closed steady at the opening prices, with a good clearance, all that got in in time for the market. Prospects look only fair.

We quote: Mixed, medium and heavies and good yorkers, \$9.85@9.90; a few fancy decks of choice hogs up as high as \$9.95. Light yorkers and pigs, \$9.90@10; roughs, \$8.80@8.90; stags, \$7.75@8.50 as to quality.

The lamb market opened slow today, with more of the best lambs selling from

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tations range as follows: Ohio and Pennsylvania fleeces—No. 1 washed, 36@37c; delaine washed, 35@36c; XX, 33@34c; half blood clothing, 31@32c; three-eighths blood clothing, 31@32c; quarter blood combing, 30c; delaine unwashed, 26@27c; fine unwashed, 23@24c. Michigan, Wisconsin and New York fleeces—Fine unwashed, 22@23c; delaine unwashed, 25@ 26c; half blood unwashed, 28@29c; three-eighths blood unwashed, 28@2

Stockers sold at \$4.75@6 and feeders at \$5.75@6.75. Corn planting kept some buyers away, but the demand about equalled the supply of desirable feeding steers.

The skirmishes between stockmen and killers have shown several victories for the former, last week's hog supply having continued on a much smaller scale than a year ago, both here and at other western markets. There was a good percentage at times of prime 230 to 260-1b. offerings, and packers showed a preference for these, while eastern shippers took a good proportion of the hogs offered, with a good call for choice light hogs. Speculators purchased the best hogs rather extensively and thereby assisted in putting prices higher. The outlook does not appear to be very good for the packers putting hogs on a lower basis, and unless supplies undergo a considerable increase and eastern shippers operate less freely, sellers are likely to be in a position to maintain values. Stockmen apear to realize the position of affairs and are not generally disposed to market their holdings after a sharp decline in prices. Provisions sympathize with hogs and are bringing high prices, the statistical showing being of a bullish character. On May 1 western packing points held aggregate stocks of 165.860,000 lbs., compared with 168.403,451 lbs. a month ago and 305,322,-263 lbs. a year ago.

Sheep and lambs have sold well or otherwise according to their quality, buyers bidding up well for the high dressing lambs and taking other kinds under protest as substitutes. As for sheep, most lots had to be sold lower last week, the call being mostly for high-class lambs, which sold higher, Colorado wooled lambs selling at the highest prices recorded in several weeks. Regarding the sheep and lambs received, traders stated that many country shippers sent in holdings which they called choice, but which were only fair, and had to be sold below expectations. There was a scarcity of spring lambs, whereas a year ago supplies from Kentucky and Tennessee were fairly large at \$800 and lower than a

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.
May 19, 1910.

Cattle.

Cattle.

Receipts, 1,322. Market dull and 25@35c lower than last week.

We quote: Best steers and heifers, \$7; steers and heifers, 1,000 to 1,200, \$6.25@6.75; steers and heifers, \$00 to 1,000, \$6.25@6.50; grass steers and heifers that are fat, 800 to 1,000, \$5.50@6; grass steers and heifers that are fat, 500 to 700, \$4.75@5.50; choice fat cows, \$5.65.50; good fat cows, \$4.50@5; common cows, \$3.50@4; canners, \$2.50@3; choice heavy bulls, \$5.50; fair to good bolegnas, bulls, \$4.450; milkers, large, young, medium age, \$40@55; common milkers, \$25@35.

Bishop, B. & H. sold Schlischer 20 steers av 762 at \$6.20; to Goose 5 do av 1,050 at \$5.35; to Kamman 13 do av 858 at \$6.25; to Mich. B. Co. 26 steers av 858 at \$6.25; to Mich. B. Co. 26 steers av 855 at \$6.25; to Thompson Bros. 1 bull weighing 650 at \$4.1 cow weighing 1,000 at \$5; to Regan 3 heifers av 516 at \$4.40; to Davenport. 2 stockers av 556 at \$4.50; to Sullivan P. Co. 1 cow weighing 1,070 at \$4.3 do av 863 at \$5.50, 2 steers av 930 at \$6.75; to Mich. B. Co. 22 steers av 930 at \$6.75; to weighing 1,300 at \$5, 3 cows av 887 at \$3.75; to Mich. B. Co. 22 steers av 930 at \$6.75; Spicer & R. sold Kull 12 steers av 927 at \$6.90, 6 do av 891 at \$6.90, 27 do av

weighing 1,500 at \$5.50, 3 cows av 887 at \$3.75; to Mich. B. Co. 22 steers av 1,080 at \$6.75.

Spicer & R. sold Kull 12 steers av 927 at \$6.90, 6 do av 891 at \$6.90, 27 do av 746 at \$6.50, 1 bull weighing 1,160 at \$5, 1 do weighing 1,390 at \$6; to Sullivan P. Co. 3 cows av 1,033 at \$3.75, 6 do av 1,068 at \$5.50, 1 bull weighing 1,070 at \$5, 1 do weighing 920 at \$5, 2 do av 835 at \$4.50; to Try 11 butchers av 425 at \$6.25, 2 cows av 1,020 at \$4.50; to Kamman 9 butchers av 685 at \$4.50, 1 cow weighing 850 at \$3.25; to Brown 4 stockers av 567 at \$4.50, 1 do weighing 400 at \$4; to Regan 5 heifers av 510 at \$4.50; to Brown 4 stockers av 585 at \$4.50, 1 do weighing 400 at \$4; to Regan 5 heifers av 510 at \$4.50; to Brown 4 stockers av 567 at \$3.25; to Brown 4 stockers av 560 at \$4.50; to butchers av 800 at \$5.60, 11 donav \$73 at \$4.50; to Kamman B. Co. 28 butchers av 800 at \$5.60, 11 donav \$73 at \$5.75; to Erban 1 bull weighing 500 at \$4; to Schuader 8 steers av \$755 at \$3, 2 bull and cow av 975 at \$4.50.

Roe Com. Co. sold Mich. B. Co. 32 butchers av 750 at \$5.75, 25 steers av 863 at \$6.50; to Kamman B. Co. 14 steers av 966 at \$6.75, to Fry 1 cow weighing 1,000 at \$4.50, 4 heifers av 760 at \$5.75, 25 steers av 863 at \$6.50; to Kamman B. Co. 14 steers av 966 at \$6.75, to Fry 1 cow weighing 1,000 at \$4.50, 4 heifers av 760 at \$5.75, 25 steers av 863 at \$6.50; to Kamman B. Co. 14 steers av 966 at \$6.75, to Fry 1 cow weighing 1,000 at \$4.50, 4 heifers av 760 at \$5.25; to Mich. B. Co. 4 cows av 878 at \$4.50, 15 butchers av 763 at \$6, 23 do av 972 at \$6.50, 3 baby steers av 813 at \$7.50, 1 do weighing 600 at \$4.50, 4 heifers av 760 at \$5.25.

Weeks sold Lingeman 14 steers av 900

av 1,042 at \$5.25. Weeks sold Lingeman 14 steers av 900

Weeks sold Lingeman 14 steers av 900 at \$6.40.

Haley & M. sold Bresnahan 13 stockers av 450 at \$4.15; to Marx 16 steers av 942 at \$6.85; to Goose 4 cows av 1,037 at \$5.15, 1 do weighing 960 at \$4.25; to Cooke 14 steers av 944 at \$6.80, 8 heifers av 775 at \$5.80, 1 bull weighing 750 at \$4.50; to Thompson Bros. 2 steers av 800 at \$5.25 to Fry 4 heifers av 700 at \$5.75; to Regan 3 do av 500 at \$4.90; to Fronn 2 cows av 950 at \$3.75, 1 cow weighing 700 at \$3.50; to Breitenback Bros. 19 butchers av 842 at \$6.10, 1 steer weighing 760 at \$5.50; to Sullivan P. Co. 10 cows av 982 at \$5; to Rattkowsky 4 steers av 837 at \$6, 1 cow weighing 990 at \$4.25; to Markowitz & B. 4 do av 935 at \$4.50, 1 do weighing 920 at \$3.50, 3 butchers av 900 at \$4.60; to Lachalt 9 do av 750 at \$5.

av 210 at \$7; to Newton B. Co. 2 av 110 at \$7, 25 av 135 at \$8; to Hammond, S. & Co. 4 av 140 at \$6, 12 av 130 at \$7.75; to Goose 5 av 125 at \$7.75, 35 av 130 at \$7.50; to Markowitz 24 av 135 at \$7.40.

Sheep and Lambs.

Sheep and Lambs.

Receipts, 2,354. Good grades 15@25c higher than last week. Common lambs, 25c, grass sheep 50c lower and dull.

Best lambs, \$8.50@8.75; fair to good lambs, \$8.68.25; light to common lambs, \$5@6.50; spring lambs, \$9@11; fair to good sheep, \$5; culls and common, \$3.50@4.

Bishop, B. & H. sold Sullivan P. Co. 4 lambs av 80 at \$8.50, 9 do av 63 at \$8.4 sheep av 112 at \$4.50, 19 lambs av 60 at \$8.25, 4 sheep av 130 at \$4.50, 6 do av 95 at \$3.50; to Nagle P. Co. 607 lambs av 82 at \$8.75, 112 do av 65 at \$6.50; to Mich. B. Co. 8 sheep av 125 at \$4.75; to Thompson Bros. 25 lambs av 60 at \$7.50; to Mich. B. Co. 81 lambs av 75 at \$8.50, 4 do av 63 at \$8.21 do av 55 at \$7. 24 sheep av 80 at \$5. 7 do av 75 at \$4.21 do av 110 at \$5. 29 lambs av 72 at \$8.50, 6 spring lambs av 58 at \$11. Wagner sold Newton B. Co. 4 sheep av 125 at \$4.50; to 125 at \$4.50; limbs av 60 da \$8.50; limbs av 75 da \$8.50; limbs av 60 da \$8.50; limbs av 60

Carmody sold Mich. B. Co. 11 lambs av 80 at \$8.25.

Waterman sold Sullivan P. Co. 9 lambs av 85 at \$6, 16 do av 75 at \$7.50.

Spicer & R. sold Mich. B. Co. 21 sheep av 85 at \$5.55, 61 lambs av 58 at \$7.50, 13 sheep av 110 at \$4.75, 8 do av 130 at \$5.50, 7 do av 100 at \$6; to Sullivan P. Co. 4 do av 80 at \$3, 12 lambs av 65 at \$4.50, 29 do av 85 at \$8.75, 31 do av 68 at \$7, 4 sheep av 135 at \$5; to Mich. B. Co. 5 do av 90 at \$5, 4 spring lambs av 48 at \$8.50, 16 sheep av 105 at \$4.75; to Mich. B. Co. 11 lambs av 58 at \$6.75.

Roe Com. Co. sold Nagle P. Co. 5 lambs av 82 at \$8, 5 sheep av 140 at \$5.

Haley & M. sold Thompson Bros. 16 sheep av 120 at \$6.

Hogs.

Receipts, 4.741. Market 5@10c higher than last Thursday.
Range of prices: Light to good butchers, \$9.70; pigs, \$9.70; light yorkers, \$9.70; stags, ½ off.
Spicer & R. sold Hammond, S. & Co. 68 av 200 at \$9.75, 299 av 190 at \$9.70.
Roe Com. Co. sold same 287 av 190 at \$9.70.

\$9.70. Sundry shippers sold same 680 av 180

Haley & M. sold Sullivan P. Co. 257 av 185 at \$9.70. Bishop, B. & H. sold same 260 av 190 at \$9.70.

Sundry shippers sold same 370 av 185 \$9.70. Bishop, B. & H. sold Parker, W. & Co. 2,019 av 190 at \$9.70.

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

Injured Back.—For the past two months my two-year-old stallon has traveled out of line as though his back was weak. This colt has not been castrated. F. K., Carsonville, Mich.—It is possible that your colt met with an accident and sprained his back. Apply equal parts turpentine, aqua ammonia and sweet oil to back every day or two and give him ½ dr. fluid extract nux vomica at a dose in feed three times daily.

Scrataches Stocking.—My four-year-

Scrataches Stocking.—My four-year-old colt's left hind leg stocks when idle, exercise reduces it some, but still remains larger than normal at fetlock joint. The heel is cracked and indicates scrataches, but causes no lameness. S. J. W., Litchfield, Mich.—Give 1 dr. iodide potassium at a dose twice a day and apply equal parts powdered alum and boric acid to sores twice a day.

Sharp Irregular Teeth—Slavers—Have

to sores twice a day.

Sharp, Irregular Teeth—Slavers.—Have a horse that chews her bit and slobbers when in harness. When in field to pasture holds her head high and moves the tongue almost constantly. She will not eat corn off cob and appetite is not very good. She first commenced slobbering in the winter and has kept it up ever since. A. S.. Bath, Mich.—Her teeth should be looked after by some one who is competent to float them. Also give 1 oz. baking soda, ½ oz. ground gentian and 1 dr. ground nux vomica at a dose in feed three times a day. Dissolve 1 oz. powdered alum in a quart of water and wash mouth three times a day.

Leucorrhea.—My eight-year-old mare

should be looked after by some one who av 750 at \$5.

Veal Calves.

Receipts, 1,291. Market 75c higher than last week. Best, \$\$68.50; others, \$400 7.50; milch cows and springers steady. Bishop, B. & H. sold Friedman 1 weighing 240 at \$8.50; to Kull 6 av 130 at \$8.50; to Farker, W. & Co. 29 av 130 at \$8.50; to Sullivan P. Co. 52 av 130 at \$8.50; to Sullivan P. Co. 52 av 130 at \$8.50; to Sullivan P. Co. 24 vi 135 av 120 at \$7.75, 52 av 130 at \$7.55; to Sullivan P. Co. 17 av 140 at \$8.50; to Sullivan P. Co. 17 av 140 at \$8.50; to Sullivan P. Co. 17 av 130 at \$7.75, 52 av 130 at \$7.55; to Sullivan P. Co. 17 av 140 at \$8.50; to Sullivan P. Co. 17 av 140 at \$8.50; to Sullivan P. Co. 17 av 140 at \$8.50; to Sullivan P. Co. 17 av 130 at \$7.75, 53 av 130 at \$7.75; to Mich. B. Co. 8 av 125 at \$7.55.

Cheney & H. sold Sullivan P. Co. 32 av 130 at \$8.50; to Sullivan P. Co. 32 av 135 at \$7.55; to Sullivan P. Co. 32 av 135 at \$7.55; to Sullivan P. Co. 34 av 135 at \$7.55; to Sullivan P. Co. 35 av 125 at \$8.50; to Sullivan P. Co. 35 av 125 at \$8.50; to Sullivan P. Co. 35 av 125 at \$8.50; to Sullivan P. Co. 35 av 125 at \$7.55; to Mammond, S. & Co. 36 av 125 at \$7.55; to Mammond, S. & Co. 37 av 130 at \$7.55; to Mammond, S. & Co. 30 av 133 at \$7.55; to Sullivan P. Co. 32 av 135 at \$7.55; to Mammond, S. & Co. 34 vision sold Schlischer 26 av 130 at \$8.50; to Sullivan P. Co. 32 av 135 at \$7.55; to Mammond, S. & Co. 34 vision sold Schlischer 26 av 130 at \$8.50; to Sullivan P. Co. 32 av 135 at \$7.55; to Mich. B. Co. 29 av 130 at \$8.50; to Sullivan P. Co. 32 av 135 at \$7.55; to Mich. B. Co. 29 av 130 at \$8.50; to Sullivan P. Co. 32 av 135 at \$7.55; to Mich. B. Co. 29 av 130 at \$8.50; to Sullivan P. Co. 32 av 135 at \$7.55; to Mich. B. Co. 29 av 130 at \$8.50; to Sullivan P. Co. 32 av 135 at \$7.55; to Mich. B. Co. 29 av 130 at \$8.50; to Sullivan P. Co. 32 av 130 at \$8.50; to Sullivan P. Co. 32 av 130 at \$8.50; to Sullivan P. Co. 32 av 130 at \$8.50; to Sullivan P. Co. 32 av 130 at \$8.50; to Sullivan P. Co. 32 av 130 at \$8.50; to Sullivan P.

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Quechee Fells Farm, Quechee, Vt., celebrated Jersey Breeders,

Quechee Fells Farm, Quechee, Vt., celebrated Jersey Breeders,

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Asphalt-saturated Wool Felt Trinidad Lake Asphalt Asphalt-saturated Wool Felt

THE DAIRY

CONDUCTED BY COLON C. LILLIE

WHY MAKE BUTTER ON THE FARM?

There are many advantages in favor of making butter on the farm, especially if conditions are fairly favorable and one is reasonably close to a market. On the other hand, there are a few objections and the question must be decided by each one for himself.

is really less trouble to make the GRADING CREAM AT CREAMERIES. butter at home than it is to draw the milk to the creamery, especially if whole milk is sent when the bulk or weight of islature passed the present dairy law, it must be hauled both ways. If it is which broadened the scope of the dairy separated on the farm, it will take less and food department and gave us the intime to care for the cream and make it into butter, than it will to deliver the and dairy products. It is just five years cream to the creamery. It breaks up a since we began the systematic inspection half day to go to the creamery, where of creameries and cheese factories and one has to wait in line his turn to get farm dairies so far as we have been able home, his horse put out and into the most with creameries and cheese facfield, considerable time has been con-tories because we have given them the sumed without any farm work having most attention. Every creameryman in been accomplished. The buttermaking this state will, I think, agree with me can generally be managed to come when that inspection has been beneficial to the it is convenient, that is, not to take a man from the field, and never a horse.

because the skim-milk can be fed when it is sweet and yet warm with the animal more uniform, but it is of better quality heat, and the buttermilk is left for the than it was five years ago, it is yet, howhogs. Calves will not do well if frequent ever, far from what it should be and it changes are made from sweet to sour is not what it would have been had we milk, but this cannot be avoided very well with the skim-milk received from the to the gathered cream system. Five years creamery. It is generally sweet for the ago we had many whole milk creameries; morning feed but sour for the night dur- today we have very few of them. We ing hot weather. By separating it on the have changed to the gathered cream sysfarm, the milk is always sweet and calves will do far better upon it. The buttermilk is another item to be considered, it in buttermaking, we have deteriorated in having a feeding value for hogs or poultry equal to skim-milk.

profitable market can usually be them the market price at the creamery. The creamery patrons usually are glad to buy from a neighbor making butter at home, because a majority of them pre-fer it to the creamery butter. If one has milk sufficient to make say, fifteen pounds of butter per day and can find a sale for it among neighbors or at the local grocery store at creamery prices, he would be receiving fair pay for his time. The usual charge for making is 21/2c a pound, so if the farmer made it himself, he would be paid at the rate of from 25 to 50 cents per hour for his time. By taking it to the creamery, he not only loses his own time and that of the horse and rig, but he receives 21/2c per pound less than he would get if he kept the milk on the There is no trouble in obtaining creamery prices and often one can place it at a cent or two above highest quotations.

If the farmer handles it himself, he knows that none is getting rich at his ex- of grading cream is that we could not fix pense. Of course, most buttermakers are honest, but there are some who cannot resist the temptation to lay away part of the farmer's butter money to make good measure in addition to the regular 21/2 c per pound. This can be done very easily and without detection unless the patron keeps close watch.

The main objection to making butter on the farm is the work, but in reality there is less work connected with it when made on the farm than when delivered to the creamery. It is a simple matter to make good butter on the farm, there is more profit, less labor and more satisfaction than there is in hiring it made at the creamery or factory.

Pennsylvania.

L. J. HAYNES.

SILO PIT.

In regard to Mr. J. D. McL.'s inquiry as to a silo partly built in the ground, them from us. I would say that I have a silo built this the door through the barn wall. Have Navy. the stone wall. By this method I do not period of time named, have to use any bucket or pitch up any level with the basement floor. The door that the government required, that 15

for the stone wall is made in two sections and are placed on the inside of the door frame when the silo is being filled and are easily removed when necessary. After my silo was up I had a mason plaster the inside of the stone wall, also letting the plaster reach up on the inside of the staves as far as possible. My ensilage keeps well, only where the air is allowed to get in. I always consider my ensilage is better when we get down below the top of the wall where it is impossible for the air to enter.

Livingston Co. F. H. DURFEE.

Just about five years ago our state legspection of creameries, cheese factories the skim-milk. By the time one gets to do it. Of course, we have accomplished We have accomplished much industry. in that direction. We are putting on the Better calves and hogs can be raised, market a more uniform product in both cheese and butter. And not only is it not changed largely from the whole milk tem and now we have another problem to solve. As fast as we have improved the raw material and therefore the average score is not so very much better now than then. Nevertheless, the inspecfound for good home-made farm butter, tions have been of great benefit. How-Some sell to creamery patrons, charging ever, it seems to me that from one standpoint this inspection has gone just as far as you can go with it, so far as bettering the product is concerned, unless you can induce the legislature to provide more inspectors. We have enough to look after the creameries and the cheese factories, but we haven't the force so that private dairymen can well be reached under this inspection.

I tried to get an agreement among the larger creameries as to a basis of grading cream, and there was a willingness to do so and abide by the agreement, paying for the cream according to quality, but in the practical working out of the question the agreement amounted to nothing, because they were afraid they would lose a customer or two. Here is the real problem and it is a serious one in the way of accomplishing much of anything in this direction under the present circumstances.

The great stumbling block in the way upon a standard that would be agreed to and lived up to. We had no exact way of determining what was good cream and what was poor cream. When you say from your sense of smell or taste that this man's cream is bad and another man's cream is good, when you say that this man's cream is just as good as that man's, then the man with the poor cream comes back at you and says, "My cream is just as good as that man's cream, and if you don't think so I will take it to the other creamery," and you know what the result will be, especially if there is much competition.

In our creamery the necessity of grading the cream was admitted; but we hesitated for we were right under the eyes OVERCOMES DIFFICULTY OF DEEP of the centralizers of Grand Rapids. We didn't want to lose our customers, we wanted their business, and we did not want to do anything that would drive

We ran right up against a proposition, way. I dug my pit the desired size and however, that made us sit up and take depth and then built a stone wall about notice. A year ago we succeeded in get-10 or 12 inches thick, after having set a ting the contract for supplying 150,000 plank door frame directly in line with pounds of butter for the United States We were led to believe that we top of the stone wall on a level with the could fill that order without any trouble. top of the door frame. I have a stave The specifications were looked over very silo and I had the door frame of the silo carefully and we believe that we could proper set exactly over the door frame in comply with the specifications within the

We began to fill this order and found ensilage. The bottom of my silo is a lit- that what we called sweet cream was not tle lower than the floor of my basement sweet cream, at least, not sweet enough but the floor of my ensilage chute is on a We found that when we applied the test

Make Him Squirm

disks were in a cream separator and later discard-Tubular on facts.

It is very easy to make agents and makers of common cream separators squirm. If they claim their disk-filled or otherwise complicated machines are simplest or easiest to clean, just you smile and remind them that

Sharples Dairy Tubular Cream Separators

have neither disks nor other contraptions. If they claim their common machines skim closest, smile again and remind them that Sharples Dairy Tubulars develop twice the skimming force, and that skimming force does the work. If they claim their many piece machines are most durable, smile some more and remind them that many parts mean rapid wear. When you see how common sense and smiles make agents for common separators squirm, you'll not want a common machine. have neither disks nor other contraptions.

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And so this question became a rectors, and we resolved to grade the offers a profitable use for buttermilk, cream. We were in hopes that we would draw some of the cream that the centralizer was getting, and perhaps lose some of the poor cream that we could not use in filling this contract. We agreed cream than for sour cream. very much concerned about this proposition, as to how it would work out, as you New York City last week. can very readily see, but I am glad to tell you that it worked very nicely.

We did not lose any customers, but on the other hand, we gained a number and want to say that the effect of grading the cream and paying a cent and a half more for sweet cream has improved the quality of our entire product. Then we were getting cream that half of it would not stand this test, and today, by continuing this standard in grading cream, practically all of our cream will stand the test. This seems to me to be as good proof as one could want that grading cream can be done, and that successfully, not only to the creamery but to the farmer as well. So, now, I tell you, I approach this subject with more confidence than I did before I had had practical experience. We have found by actual experience that grading cream did not drive our customers away. We got a better quality of product and it was a paying proposition all around. Our people seem much better satisfied than ever before. When people say to me that one cannot run a gathered cream creamery and have the cream delivered sweet, all I say is that I know from experience that it is not so. I know that the farmer can keep his cream and send it in twice a week and deliver good sweet cream.

This cream will do to manufacture into ice cream, if it is handled right. Do you know that some of the ice cream manufacturers buy cream early to be used the warm spell that comes in the spring? If they can do that, cannot the farmer handle his cream so that he can deliver it at the creamery twice a week, sweet? The creamery managers are not responsible-it is up to the farmer, but will the farmer do this if you pay him just as much for poor cream or milk as for good cream or milk? He will never do it and we can hardly blame him if he does not. If a man produces milk under good santtary conditions and delivers it sweet, this makes that cream worth more to you, and you should be willing to pay more for it, and the reason you don't do it is because you are afraid for the reason that you think you will lose customers. Take my word for it, if you do it and do it right, you will not lose any customers, but rather you will gain others. We know by experience. I believe this whole question can be solved by the creameries and the cheese factories. It is only a matter of giving each man a square deal. We have been able to sell this No. 1 butter for enough more per pound to pay the patrons one and one-half cents more for butter-fat.

BUTTERMILK CHEESE.

As food stuffs become higher in value new ways of utilizing by-products or making more palatable and valuable some ordinary food, are devised, or discovered. securing the curd in the making of a buthat it er. To obtain the desired result a careful regulation of the temperature is necped and the buttermilk allowed to stand any such purpose perfectly quiet for one and a half or two hours. From this time it curdles slowly, and stirred gently and again left quiet predicted. for one hour, during which period it is the curd and remaining whey being then best interests of Jersey breeders. put onto cheese-cloth to drain. After New York.

cubic centimeters of Mann's standard al- draining for about six hours one to one kaline solution should neutralize the acid- and a half per cent of salt is added and ity in 50 cubic centimeters of cream, that the buttermilk cheese is ready for use. it was not up to standard, and a lot of The cheese has a mild butter-milk flavor our cream was rejected. Then we saw and is finer in texture than cottage we were up against it. We had agreed cheese, so that it may be spread on bread to fill this contract within a certain length like butter. From 12 to 15 pounds of of time, and if we failed were to pay a cheese may be made from 100 pounds of buttermilk and judging from the waste very interesting one to our board of di- of buttermilk at so many creameries, it

> AMERICAN JERSEY CATTLE CLUB MEET.

The annals of the American Jersey Catto pay a cent and a half more for sweet tle Club do not record a more thoroughly We were representative or enthusiastic gathering of its members than was assembled in

> Repeating the happy experiment suggested by President Darling last year, the annual meeting was preceded by a banquet at the Manhattan Hotel on Tuesday evening, May 3, at which the seventy guests gathered around the tables were delightfully entertained for more than five hours with each other, with the menu and with the wit and wisdom of the speakers, among whom were included leading breeders as well as leaders in thought along lines of dairy production. Professors Scovell, of Kentucky, Van-Norman, of Pennsylvania, Wing, of New York, Smith, of Massachusetts, and Rawl, of the government service at Washington, were invited guests and contributed in no small measure to the pleasure and profit of the occasion.

> The annual business meeting at the Hoffman House on Wednesday, was attended by 68 members, and 227 others were represented by proxies, making a total of 295, or more than two-thirds of of the club had exceeded those of any the entire membership.

> The president reported that the year just ended had been the most prosperous in the entire history of the club; that more animals had been registered, more sales recorded, more money received, more money spent in the interests of the breed and that despite the increased expenditure the addition to the reserve fund of the club had exceeded that of any previous year; and that one would have to go back 25 years to find the record of large an increase in the membership of the club.

> Naturally, all were pleased with this showing and accepted it as indicating the increasing favor with which the Jersey cow is regarded throughout the country as well as the efficient work which has been done by the club, and by individual members in promoting the interests of the

> Among those present were one of the original organization of 1868, several others who have outlived the three score years and ten, and more than a few of those who in years past did so much to establish the club on a sound, businesslike foundation, and mingling with them in pleasant association the newer members and younger men gathered from widely separated sections of the country for the purpose of expressing and recording their best views of the methods which should be pursued to promote the best interests of the club and the breed.

> The general policy of the club as indicated in its past management was upheld by the meeting, and it was gratifying to note the almost perfect unanimity of those present on the main questions at

Mr. E. A. Darling was re-elected president by a unanimous vote, made all the more emphatic because, at the suggestion of a leading western member, the vote was taken by rising, in expression of the From Wisconsin comes a new method of appreciation in which Mr. Darling is held as an officer and a gentleman. The choice termilk cheese. The method was designed of four new directors fell upon Lyman A. to meet the difficulty which workers have Mills, of Connecticut, Heulings Lippincott, experienced in the past in collecting the of New Jersey, A. O. Outen, of Illinois curd from heated buttermilk, since the and D. B. Lyons, of Texas, a happy blend can of men of "the old guard. not be collected on a cheese-cloth strain- younger breeders. If there had been any thought of radical changes in the administration, the membership fee, the policy essary. The butermilk is heated to 78 of the club or the location of the club degrees as rapidly as possible, while it is headquarters, there was at no time being stirred. The heating is then stop- either expression or other indication of

The character of this meeting and its results unmistakably evidence the will of the clear whey separating from the curd. the members in regard to some of the The curd is then heated to 130 degrees changes which rumor had so generally

The management now has every ennot allowed to cool. The curd settles to couragement to continue its efforts for the bottom of the vessel and much of the the improvement and development of the clear whey may be poured or drawn off. Jersey breed and the conservation of the

H. N. MCKINNEY.

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Nearly 1,200,000 farmers, creamerymen, milk dealers and owners of country homes, throughout the world, are already using De Laval Cream Separators, and 150,000 or more are being added to the number every year-many more this year than ever before.

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THE MICHIGAN FARMER.

ENCOURAGE LOCAL EXPERIMENTA-TION.

We are impressed with the utility of local experimentation. It is not only impossible, but unjust, for the state to solve upon the individual for solution.

principles to the culture of celery. Sagi- has impressed their necessity, naw and Gratiot counties must fit the principles to their soil for growing sugar beets. Then beyond this adjustment to the general needs of the crop every farmer must meet the peculiar undulations of his own farm, provide against quicksand deposits, secure proper outlets, etc. The placing of the obligation can in no case be reduced to a nicety, but we believe the example suggests that our state experiment stations are not institutions for the solution of every uncertain matter. Localities have a fairly well defined obligation and so have individuals.

In this regard, news comes to us of a move on the part of public spirited persons of Muskegon county to learn by systematic experimentation what kind of under and harrow. Then, if possible, treatment light, sandy soils need in order to cause them to produce at their maximum. There are certainly good methods and bad methods of handling any kind of soil in every agricultural community. Any effort that purposes to separate the good from the bad methods and mark them so that the rank and file of farmers and fruit growers can know which is which, least trace of club-root, as the disease is must be commended. And success in infectious and easily carried from place this effort is bound to add to the wealthproducing power of the locality concerned. We believe the steps taken by Muskegon before using again. The disease may also county citizens can be followed in every be spread by the drainage from one field county of the state with profit.

SOIL MOISTURE.

A very large per cent of the bulk of ble. the air, being the medium that carries raw material to where it can be manufactured into ready plant food and then takes this food to all growing parts to build tissue. From the soil about the plants much moisture is constantly evapo-The exact amount needed for conditions vary the amount used and wasted. But it is large. If we could know the reason for the failure, or part failure, of every crop that does not yield a maximum harvest and could classify those causes we would be amazed at the number of poor crops that needed more moist-Every process of the living plant demands the presence of this universal liquid. If in any way there is caused to be a scarcity, then the functions of the plants are impaired or checked, plant food is not gotten ready fast enough to keep all the growing tissue supplied and the waste material is not well disposed of. It is needful, therefore, to have an abundance of water from the beginning.

The humidity of our climate gives us plenty of water without going to the great expense of constructing costly irrigation ditches and forever bearing a
heavy tax for maintaining them. We
need only to retain what nature has applied. And during this very season the gardener should be wise to his possibilities. A systematic culture of the garden plot-a culture that forbids the ground to remain long without an earth mulch root systems to go deep where droughts who is in quest of the genuine Steel Red, prudent gardener's philosophy. It prepares both the ground and the plant for emergencies-rains are absorbed to keep got the quality." the plants through dry times. Such a extremes of weather to the good of the they are on the Steel Red, and the small 100 lbs. of the humus; clay, 55 lbs. of where the red does not cover the entire Seed House, Shenandoah, Iowa.

water, and sand only 22 lbs. The greater surface. feeding surface of the soil is expanded for able flavor that excites the great flow of is a limit beyond which water will arrest plant growth. When the air has been thoroughly displaced by water, roots will not perform for they need the presence of every individual's problems. There are air in small quantities to make the needsome disputed questions that apply 10 ful chemical changes in the minerals to that is found in the large specimens. conditions throughout the state or con- be assimilated. The moisture wanted in One of the characteristics of the S cerns the people of a large part of it. the soil is that which envelopes the small Such questions are proper matters for the grains of earth; whatever more water the state to investigate. There are other soil contains is useless. Underdraining problems of a strictly local character and fixes these matters as they should be for should be the object of investigation by the good of the crop; it takes away the the members of that locality. Still other excess moisture but leaves the thin coat matters are purely individual and call about the little particles of sand and clay and humus. Cultivation, vegetable fiber The state investigates the matter of or humus and underdrainage are the subsoil drainage and publishes general find- jects of important chapters in the unwritings regarding it. Kalamazoo county ten book of the practical gardener. They meets certain conditions in applying those are important to him because experience

SOUR SOIL AND CLUB-ROOT.

Much trouble is experienced in some Root in cabbage and allied vegetables. This is often caused by the acid state of the soil in which the seed is sown or into which the plants are set. Test the soil with blue litmus paper (obtained at any drug store) by moistening the soil and inserting a piece of the paper, if paper turns red, or a red-purple, the soil is sour and needs an application of air-slaked lime, from one-half to a ton per acre. If a crop of cabbage is to be grown make the usual application of manure, plow it apply the lime with a seed drill and work it very thoroughly into the soi!. The plants should be obtained from a locality known to be free from the disease and should be kept in as vigorous state of growth as possible. Great care must be taken to destroy, by boiling, or burning. any plants of any kind which show the to place. Tools which have been used in infected districts should be disinfected flowing upon another; so it will be in order for all farmers and gardeners in such localities to join together in a big and united effort to stamp out the trou-Keeping the soil sweet, rotation of garden plants is water-from 75 to 90 per crops, destruction of diseased plants and Much water passes through the clean tools are the best preventives we roots, stem and leaves and then off into know of; air-slaked lime the best remedy. Wayne Co. J. E. Morse.

THE COLUMBIAN RASPBERRY.

Is the Columbian raspberry a good salable berry and has it a good flavor?
Wayne Co. E. S.

This berry is a good berry, both for any given crop cannot be determined for kitchen and market purposes. It is purple in color, very large, round, and is an early maturing kind. It is considered one of the very best varieties for the north central states. E. S. could make no mistake in planting it. For different reasons it is unwise to plant a whole patch to a single variety; hence, we would advise inquirer and others to plant other kinds that the season may be lengthened and the work of harvesting better distributed. Shaffer is another excellent variety of the tures in midseason and after the Columbian, would be a good companion sort.

STEEL RED AND CANADA RED AP-PLES ARE DIFFERENT.

In Mr. Clapp's article on the Steel Red

The Steel Red and the Canada Rad are two different varieties of apples. If Mr. Bird or any of those who have been led to think they are the same, let them mento discourage evaporation and to urge the tion Canada Red to a well posted buyer do little harm, is a great part of the and notice the look on his face, and the decided answer, which is likely to be

The branches on the Canada Red trees

The skin is rather thick and the percentage of humus the larger water- tough. The tissue of the flesh is not holding capacity will the soil have. A so fine as with the Steel Red, and while further practice that is not overlooked by the flavor is sub-acid, when ripened, it the wise gardener is underdraining. The lacks the exquisitely pleasant and agreeroots can prosper down further. There saliva that is experienced when one eats the Steel Red. In shape the Canada Red is inclined to the oblong, leading toward the shape of the Baldwin, and not so uniform as with the Steel Red, nor do the small ones possess the excellent quality

> One of the characteristics of the Steel Red branches, is slow growth. The Steel Red is usually top grafted on other varieties, and do well when set on slow growers such as the Talmon Sweet and natural fruit stalks. The twigs spread at the surface, therefore do not require as much pruning as most other varieties.

In color the Steel Red is generally a fairly handsome red, but not such a deep red as some other varieties. Where the red does not extend all over the surface of the apple, the balance is a yellowish white. It is very flat at the stem end, and usually thicker sidewise than from stem to blossom end. It has a tender skin and is very susceptible to scab. It is a variety that the worms from the eggs localities through the ravages of Club- laid by the codling moth seem to take delight in getting to. Orchardists who raise them declare that it requires more spraying to secure good Steel Rel than any other of the late winter varieties. The season for the Steel Red, under ordinary conditions, is from January to June. As a hand apple it is a worthy successor to any of the fall varieties, and as far as I know, is superior to any other of the late varieties. Buyers are generally willing to take the smaller ones down to an inch and a half in diameter, as they carry the same quality when small as do the larger ones.

> Wayne Co. N. A. CLAPP.

ANOTHER SUCCEEDS BY PLANTING SQUASHES AMONG POTATOES.

I would like to say to Mrs. J. P., who, in your issue of April 23, makes inquiries in regard to raising squashes, that we have had excellent success and absolute freedom from both bugs and root borers by planting our squashes amongst potatoes, and this for some six or seven years past, although previously we had fought these two pests until we were in despair. We discovered this method by wishing to utilize a desirable bit of ground in the midst of the potato field, for our squashes and to our surprise they were entirely unmolested by bug and borer. We have raised them in this way ever since, and our neighbors do the same. The seed can be planted in separate hills, or inserted the potato hills, only be sure the squash patch is well surrounded with potatoes. I can give no explanation for it, but fancy the odor of the potato vines may be obnoxious to these pests.

Oakland Co. SUBSCRIBER.

THE PROFITABLE ONION.

At the head of the list of important vegetables stands the onion. While it has made its way up there by merit, yet it has qualities that are somewhat repulsive.

"The more freely onions are used the less drugs are needed," is an old saying and there is enough truth to make it worthy of consideration. Those who reject the onion because of its lingering purple raspberries and being one that ma- attachment to the breath are more nice than wise. The growing of the odorous vegetable has become a great industry, and the conditions of success with it are simple and easy when once mastered. When the hot weather of July comes on the inclination of the onion is to quit growing and ripen up, and many a man has found to his sorrow that the bulbs have only made half size, because their growing season was too short. Use seed enough, for it is better to have some thinning to do, than to have a poor stand. But with good care and sense you may avoid both extremes, thus reducing the cost to the minimum, and increasing the R. B. RUSHING.

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By special arrangement, Ratekin's big "No! No! don't want them; they haven't 1910 seed catalogue, with a sample of "Diamond Joe's Big White" seed corn that made 153 bushels per acre, will be practice balances against each other the are longer and larger at same age than mailed free to every reader of this paper who is interested in the crop he grows. crop. If the soil is furnished with a gen- stems, or fruit branches, are not so nu- This big book tells how to make the farm erous supply of humus the effect of the merous and well spread at the surface. and garden pay. It's worth dollars to all cultivation will be augmented. Humus The Canada Red apples are a handsome, who plant or sow. Write for it and men-will absorb 143 lbs. of water for every deep red, with a show of greenish color tion this paper. The address is Ratekin's who plant or sow. Write for it and menUSE THREE DOLLARS' WORTH

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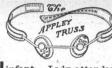
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SILVER KING and EARLY YELLOW DENT SEED CORN, 2 cents lb. in ear; \$2 bu, shelled, cleaned and graded. Corn and Potato Fer-tilizer and Corn and Potato Finaters. E.H. HUTCHINS, Box 108 Clayton, Lenawee Co., Mich.

IN ANSWER TO INQUIRIES.

POULTRY THAT THE CENSUS MAN IGNORED.

I have taken a census of this poultry in surprised, though I suspected that much themselves for the reason that they are ers who are in tenant houses in the dairy rats and other enemies of young fowls. and farm districts and who rent or own homes in our villages.

been censused. I believe this to be an weeks. One method of feeding for this oversight, as I believe it is the desire of result is, briefly, the following: During certainly trust this may be rectified ten counted separately so that we may know considering market value alone, and these statistics are important to the country.

pure-breds. The value of the former was 100 eggs for the year to each hen of the cause the owners nearly all sold some of pure stock from these 37 families. This be available upon every farm. makes a total of \$30 for eggs for hatching. These pure-bred hens averaged 11 to 12 dozen each. If we allow a half dozen per hen for her share of hatching eggs our hens then would average about 11 dozen each of market eggs. These, at 22c per dozen, would be \$2.42 per hen, or a total of \$690 for the 285 pure-bred total egg values for 661 head \$1,409.

an estimate of over \$80,000 for the make it possible for them to gorge themthese figures as to fowls and values are harm them. pretty conclusive. The estimates as to egg Change your method of feeding at once, ied to suit the reader's notion, but I be- cracked wheat and corn, clover chaff, millieve they are fairly accurate.

Raising Ducks with Hens. Please tell me how to raise ducks with hens—the care and feed they need while young. Do you have to take them away from the hens as soon as hatched?
Osceola Co.
On many of the large duck farms it is

For census purposes a "farm" consists the practice to hatch ducks in large num of three or more acres, or a smaller piece bers with hens and place the young in of ground may be scheduled as a farm if brooders or brooder houses as soon as \$250 or more was produced on it in 1909, hatched. No attempt is made to brood Under this ruling of the census act all them with hens for the reason that the poultry raised on small lots in small num- artificial method is more economical and bers by laboring men, professional men, satisfactory where ducks are raised on business men, and many small poultry an extensive scale. However, it is not breeders, doesn't come within the census practical to practice artificial hatching this year and will not be censused. A and brooding where only a few of these moment's consideration of the vast army fowls are raised upon the farm. It is then who raise from 15 to 50 or perhaps 100 best to have the hatching done by hens. head of poultry alone for pleasure and since the ducks will continue laying for profit will convince anyone that the value several months and a fairly good-sized and profit thus turned out every year is flock can thus be produced from a limmarvelous if only we could get the figures. ited number of breeders. The hens will be found rather more satisfactory for my election district and admit that I am brooding the young ducks than the ducks money was secured yearly by these poul- not so restless and not inclined to wander trymen who operate on a very limited about over the farm as ducks are. While scale. This district has 300 registered they require careful attention early, duckvoters and represents about 250 families. lings are hardier than chicks and more In it is included about three-quarters of easily raised. Proper feeding and a good a country village of about 500 population; coop or pen having a perfectly dry floor the remainder is farm and dairy country. in which to spend the nights, are the All in all, I believe it represents a pretty main requisites. The coop or pen must, fair average of those small poultry keep- of course, give absolute protection from

If the plan is to grow the ducks as quickly as possible and market them they In this section I found 37 families who must be fed liberally from the start. The keep poultry in lots of from seven to 57 big duck farms claim to be able to bring each but which didn't come within the a duckling of the Pekin or other large meaning of the census act and had not breed to marketable size at the age of ten the Census Bureau to make this informa- the first week cracker or bread crumbs tion as full and complete as possible. I and corn meal, equal parts by measure, are mixed with about 15 per cent of their years hence, and also that pure-bred fowls bulk of finely chopped hard-boiled egg; and common or mongrel stock may be sharp sand, about 5 per cent of the entire bulk, is added and the whole mixture what breeders of pure-bred poultry are moistened with water or milk until it doing throughout the country. Our poul- forms a crumbly mass. This is fed four try industry stands fourth in importance, or five times a day, with care to have it perfectly sweet and wholesome at all The following two weeks the ra-These 37 families have a total of 661 tion is made up of wheat bran, 2 parts; and of poultry—376 common and 285 corn meal, 1 part; rolled oats, 1½ parts, with about 5 per cent each of sand and given at from 75c to \$1.00 each, and the beef scrap and about 10 per cent of green latter from \$1.00 to \$10 each. From the food. The green stuff is cut fine, green whole I estimate that \$2.00 each is a good clover, lettuce, rape or tender grass, oats fair average for the 661 head, as many of or rye being used. The whole is thorthe common fowls are good sized birds, oughly mixed, moistened as before, and and will average, on market, \$1.00 or more fed four times a day. During the next per head. This gives a total estimated three weeks the ration is practically value of \$1,322. By careful inquiry I the same except that the rolled oats is found that these hens averaged from nine dropped. From then until ten weeks old to 10 dozen eggs each last year, besides the proportion of wheat bran is reduced raising young, and the laying hens were one-half and that of corn meal is doubled. about the number on hand now. Allowing Beef scrap is also increased to 10 per cent, thus making a ration which will bring the common stock, and figuring them at 22c duck to this age in a fat and plump conper dozen for the year, we find these hens dition and large enough for early marketproduced \$689 in eggs alone during 1909. ing. If it is desired to keep some of the The pure-breds did better than this be- ducks for breeders, or if it seems preferable to grow them with a view to fatteneggs for hatching, a few selling their ing and marketing when more mature, a entire output from February to May for smaller proportion of corn meal and beef hatching. Prices on these varied from scrap should be used. Otherwise the ra-50c to \$2.00 per 15. I believe a conserva- tion is not a bad one for growing ducks tive estimate on this is to allow \$2.50 for and has the advantage of being composed, hatching eggs to each of the 12 breeders in the main, of ingredients which should

Food Packs in Crops.

My little chicks are dying of bowel trouble. Their crops seem to be full of feed but their wings droop and they die. Have been feeding oatmeal and cooked potatoes. Had the same trouble last year. A little nux vomica has been given the affected chicks but without results.

Huron Co. Mrs. R. Dressler.

Huron Co. Mrs. R. Dressler.
The nature of the food and the fact hens; add \$30 for hatching eggs and we that you do not mention grit would seem have \$720 for the pure-breds, making to explain the trouble. Oatmeal and potatoes are foods that pack easily and re-This doesn't include any fowls raised or quire a liberal allowance of good, fine, but This is from a capital investment sharp grit, to enable the chick to handle of \$1,322, plus the buildings, which may them. Perhaps, too, they have been eatbe much or little. This is only for 37 fam- ing more of this ration at a time than was best for them, bers to be censused, but the district taken too full and rendering digestion more is only one-third of our town, and 1-57th difficult. Young chicks should be fed or thereabouts, of our county. This allows frequently but not enough at a time to county of Delaware, New York in poultry selves. If not practical to feed a number income from uncensused poultry. No es- of times during the day a portion of their timates can be secured from the enumer- food should be given in litter, compelling ators upon the farm and censused poultry them to hunt for it, which will not only to compare with this, as the census act remove the danger of overeating but will prohibits any information or estimates of give them exercise. They will quickly any kind being given out except through learn to search for the food, but be sure the Director of the Census. However, there is nothing in the litter that might

values and average per hen may be var- giving a greater variety of food. Finely let seed, with some green stuff, such as Delaware Co., N. Y. O. F. SAMPSON. lettuce or cabbage leaves, or chopped on-

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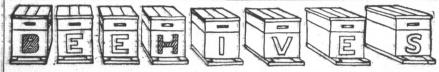
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ion tops, will very materially improve the ration. But, first of all, look to the supply of grit and place it where they have constant access to it. Also provide a supply of wood charcoal or charred bone, as this material is a good preventive of bowel trouble. When there is meat among the table scraps chop it fine and give an occasional allowance while it is fresh; otherwise secure a little of the commercial meat meal prepared especially for poultry, or else give sweet skim-milk as a drink, as they require some animal food.

It may not be possible to save the chicks whose crops have become packed with food. Give a little of the charcoal to sweeten the contents of crop. Then give a liberal dose of sweet oil and knead the crop with the fingers. If you succeed in getting the mass to move down the digestive tube or in removing it through the mouth, follow it up with a half teaspoonful of castor oil to clear the digestive tract and then feed carefully on soft food for a few days.

CONTROLLING INCREASE IN BEES.

This is easily managed by using modern methods. We can have much increase and little honey, or much honey and little increase, whichever we most desire. will suppose, first, that we wish only a moderate amount of increase, say about enough colonies to make up for the winter losses. If we wish to run principally for comb honey the following method will be a good one:

As soon as the honey flow commences put a second hive body on the top of each strong colony filled with drawn combs, if you have them; if not, use full sheet foundation and draw up two or three frames of honey or brood from belew, replacing them with foundation. This will draw the bees above. When they have started work in good shape above and quite a lot of uncapped honey is in evidence, set the colony to one side, remove the upper story and place on the stand previously occupied by the colony. Put your comb honey super on this and shake the bees from the parent colony in front of the old stand, leaving enough bees to take care of the brood in the parent colony.

When you have gone through the yard in this manner, take your hives of brood and stack them two or three deep. These will make booming colonies with very little danger of swarming that season. At the old stand you have nearly the full flying force thrown into a hive filled with uncapped honey and empty sections. The queen, which should be with these bees will have no place to lay without this honey is removed, consequently the bees immediately begin work in the sections, drawing out foundation, and carrying up this honey from below.

If one wishes to avoid all increase these hives of beeless brood can be placed back on the new colony, over the sections at the end of five or six days, having first cut out all queen cells. If these combs are dark it will not be best to allow them to cap over the sections while this extra hive body is on, for they may incorporate some of the wax from these old combs into the cappings. This can be done by giving plenty of room or even removing the sections to another colony to be finished.

If one desires lots of increase, rather than honey, he can secure it in the following manner: Pick out your best queen, or the one having shown the best record for the past year. We will call this colony No. 1. For colony No. 2 pick out a strong one and remove its queen and all brood to another stand. Now take the brood from No. 1, shaking the bees onto empty combs, and carry the brood to No. Now go to four or five other colonies which you wish to use in making increase, and take from each one what brood they can spare, being careful not to reduce each stock to less than four brood. Put these frames of brood in an upper story and set on hive No. 1 and your queen will immediately occupy them.

Leave them for nine days, at which time hive No. 2 will have an abundant supply of capped queen cells. Divide the brood from this hive into two or three Remove the brood from No. 1 giving it to No. 2 as before, replenishing No. 1 from the other colonies.

This round can be repeated every nine As soon as you get eighteen or twenty frames of brood at a time for No. 1 use the extra ones for building up the nuclei already started. By using this method six or eight colonies can easily be increased to from 30 to 40.

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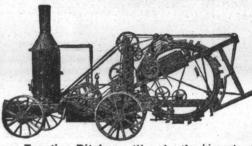
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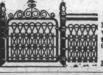
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