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HAVE seen statements to the effect that late fall plowing is advisable in all cases and on any type or kind of soil. While it is true that there are a great many arguments in favor of fall plowing as compared with spring plowing, it is not satisfactory in all cases. The common advantages which are enumerated for this work are that more moisture is conserved for the use of the plants the following year; that more weeds can be killed most easily in this manner and that insect pests will be largely eliminated.

Fall Plowing Conserves Moisture.

There can be no question but that where land is of the right type, it can be profitably plowed in the fall. Such fall plowed land will hold a great deal more moisture for use of the plant the following year than will land that is spring plowed. I have seen this demonstrated a great many times. In one instance, the outer portion of a corn field was plowed in the Other work came on so quickly that the middle of the field could not be plowed before snow came on and so had to be spring plowed. The next summer happened to be a dry one and when the corn was just in the tasseling stage from an eminence overlooking the field, the border of the corn field was seen to be a richer green than was the portion in the center.

Where land is plowed in the spring, there is often a dense growth of grass or other organic matter on top of the ing this lump to pieces and improving seeds which contain a large amount sive element which must be kept in top soil does not have a chance to the plants through the contact of the break up the more complex fertilizers will come up somewhat earlier by grains of soil. If a layer of organic matter is placed between the subsoil, where the water comes from, and the top soil into which the plant roots penetrate, this unquestionably shuts off the course of the capillary water which rises to the surface. This capillarity is evenly distributed under good tillage conditions. When these well distributed courses are shut off, the moisture comes up to the layer of foreign material and from here, instead of continuing on upward, it is evaporated and passes out through the cracks in the top soil.

Often, however, the loss of moisture is not so much through evaporation but on account of that which has been taken up and is held by the plants which were turned under. If grass is turned under late in the spring and the ground water taken up by the Freezing Kills Weeds and their Seeds. which is done in fitting up the ground. grass. This is locked up in the cells

often improved by fall plowing. The frosts. action of the elements is to break up up but when the elements are work- of ten days or two weeks.

thawing. Take a piece that has been again turned to the surface, the sun plowed in the spring under too wet stimulates growth and the ones that conditions and is lumpy; it may be grow are killed by the late autumn

Of course, those weed seeds that these particles which are cemented take a long time to germinate will oftogether into a hard chunk. These ten lie on the ground over winter but are broken up into smaller particles, they may be very easily killed next In a large lump of soil there is an ap-spring by going over the piece with preciable amount of plant food stored the spring tooth harrow at intervals

Twenty Autos Loaded for a Tour of Inspection of Newaygo County Farms.

soil. This is turned under and the the soil in a mechanical way, they are of moisture in the germ, will be killed the soil. A sandy field is often "burnalso improving its chemical condition if thrown to the surface and allowed pack down firmly on this material be- for the plant food which was locked to freeze. Freezing does not kill them fore the plants are ready to grow, up in the lump is now made available unless they contain a certain amount

with the result that the capillarity of for plants. Aside from the simplifica- of moisture because dry plant food is the soil is broken up. It is well tion of the soil particles, the material seldom injured by low temperatures. known that soil water rises to the is placed in a form such that bacteria Some of the weed seeds that do not tive. On account of the better subsurface where it may be utilized by can get to work upon it and they naturally come up early in the spring drainage which a sandy soil always



Newaygo Co. Farmers and Business Men Viewing a

crop's growth just when it needs mois- freezing the plants. When the soil is winter stage of their existence in the has been able to get results and imture the most, the supply is shut up turned under by the plow one year, ground. The young potato bugs bur- prove the agricultural conditions in in the plant cells under the sod while a great many weed seeds go along row into the ground in the fall and this county. Having been here only later some of this supply is liberated with the top soil. These are so far pupate. Pupation in the insect cor- a matter of some fifteen months, he at a time when it is not needed so down in the ground that they do not responds somewhat to the hibernation has been able to make such an imreceive very much of the heat of the of animals. In the spring, the full- print in the nature of his work that The physical condition of most soils sun's rays and hence do not germi-fledged Colorado potato beetle comes, undoubtedly the work will be a conis improved by alternate freezing and nate. The moment these seeds are forth ready to assail the first potato tinued factor in the future. Coming

soil, there has been a great deal of more readily used by the plant. may be easily killed by the harrowing

An, by no means, unimportant func- Some Insects Are Controlled.

plant that shows its bud above the ground.

The grasshopper lays her eggs in the first half-inch of soil in old pastures or lanes and if these are turned under in the fall, the eggs are put so far under that they do not hatch out the following summer. The pupa of the other insects which burrow farther down into the ground are turned to the surface and as these usually contain relatively large amounts of moisture, they are killed by the freezing weather. Just the insect phase of the problem is quite important for many of them are effectually controlled by fall plowing.

Sand and Wash Soils Are Damaged. I have heard the advice unreservedly given that all soils should be fall plowed. This is hardly sound coun-While there are a great many soils which are better off for being plowed before the snow comes on, there are others which are damaged to a very great extent by this same procedure.

Usually, a sandy soil is poor in organic matter. Many such sandy soils in Michigan have the chemical elements required for successful plant growth but on account of the lack of organic matter, are not as productive as are our heavier soils. A sandy soil is also much more liable to leaching and leaching of a soil is sure to carry away some of the nitrogen which it contains and that is the most expened out" by fall plowing; that is, it seems that the rays of the sun beating upon it for three or four months, as the case may be, render the organic matter contained in the soil inachas, the rains leach the most important plant foods, either farther down in the soil where they are lost, or they are put in solution where the nitrogen easily detaches itself from the bonds which hold it and goes off in the at-

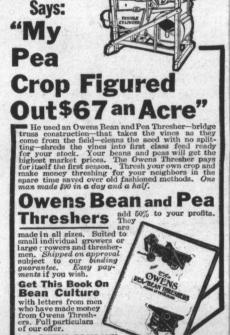
While fall plowing is very effective in killing weeds, conserving moisture and controlling insect pests when practiced on heavy land, it cannot be advised in every case. One must suit the plowing to the soil. Where land is sandy or hilly, exposure during the winter often leaches away the most valuable portions of it. In the case of hilly land, the really most important plant foods are washed down into the ravines and often clear off from the owner's farm.

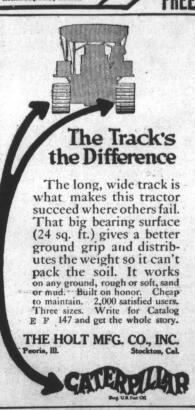
Ingham Co. I. J. MATHEWS.

then a crop planted directly upon the into simpler compounds which can be having the land fall plowed and these GETTING ACQUAINTED WITH THE COUNTY'S AGRICULTURE.

Newaygo is one of the fortunate of the grass leaves and it is some lit- tion of fall plowing is to kill weeds It is well known that many of the counties enjoying the services of a tle time before this becomes avail- and destroy the germinating quality insects which are so injurious to some county farm adviser, and further forable. Often in the early stages of the of others which are not killed by of our cultivated plants spend the tunate in that this advisor is one who







WANTED—AN IDEA: Who can think of simple wanted they may bring you wealth. Write for they may bring you wealth. your ideas, they may bring you wealth. Write for "Needed Inventions" and "How to Get Your Patent the surface of the soil with their covers. Upon a dairy farm where nothing wenders, will it always be? "Needed Inventions" and "How to Get Your Patent and Your Money." RANDOLPH & OO. PATENT and Your Money." RANDOLPH & OO. PATENT of leaves which, aside from in- is sold from the place except butter, Shiawassee Co. J. N. McBride, and Your Money."

lot of co-operation between Mr. Bland- system. ford and the farmers, with the result success.

ness men might see what was being dairy farm of Joseph Gerber was vis- suitable, and then the question bedone in the county in this work, also ited and an excellent herd of regis- comes more difficult. that they might get together and get tered Holsteins was inspected, also better acquainted and the farmers get some of the finest alfalfa in the west- sown as soon as possible after the away from home and see the other ern part of the state-alfalfa that cut main crop that is grown during the fellow's farm, a day off was planned six tons to the acre this year. At A. summer is gotten out of the way. If tion of Mr. Blandford got together tatoes that had been treated to vary- will serve a good purpose, and should September 10. Both business men and ing amounts of commercial fertilizer be sown in the fall on all land that is farmers donated autos and at 8:30, 20 and that had had thorough spraying. to be idle during the winter, unless autos left Fremont loaded down with Examination of the hills showed that fall or winter plowing is to be pracbusiness men, farmers, and a score of the fertilizer was getting in its work. ticed. In the spring the cover crop boys from high school who were tak- A long ride south through Newaygo north from Fremont the first stop was everyone got out and stretched their crops that are to follow. Nature has at John Jacklin's, where an 800 tree legs. Out of Grant was found another proven to us that this plan works out was the next stop where a field of was gathered here of the effect of the low it. to the acre was visited. Another fruit west of Grant is the Jennings farm of farm, with apples galore, was seen. 4,000 acres. This place proved to be Then a long sweep south to Reeman, a veritable town in itself. Good buildwhere the orchard of John Beam was ings, fine cows and horses were found pruning by Mr. Blandford and Mr. O. hundred odd men and boys voting the buildings were observed at Robert feeling that they knew their neightle, one Guernsey and the other Hol- his work better. stein, were next seen, and then back Newaygo Co.

very much experimental work, but the herd of Guernseys was seen, also stock and the manure returned to the past spring and summer has seen a some good buildings and a good farm soil, nature's plan is followed more

that certain phases of agricultural and at 11:30 the same 20 autos start- method is in the raising of live stock work in the community have been at- ed east and south. The first stop was for the market and feeding them on tempted this summer with marked at E. J. Taylor's, where a fine herd of the crops that are produced on the pure-bred Herefords were found and farm. But in some cases such sysand the said people, under the direc- L. Markley's was found a plot of po- this is too late to sow a legume, rye the agricultural work. Going brought the travelers to Grant, where turned under will be of value to the thinning apples noticed. Dan Rousch's longing to Mr. Voigt. More evidence try so far as it is practical to folsweet clover that yielded 4,025 pounds fertilizer on the potatoes. South and White. Good system and fine entire trip of 80 miles a success, and Kemp's. Two herds of pure-bred cat- bors, their county, county agent and

K. K. VINING.

Follow Nature's Methods.

farmer is making a study of his work can make use of it. tion of the country to find which of can turn back into the soil to give it basis at the elevators. them are best adapted to his soil and the necessary supply of humus. Such most profitable producers.

what crops will bring him the best that their root systems go into the weather. can to assist nature in her work.

that has been taken out of it by con- surface soil. tinued cropping. The first step that plants that are to follow. This growth spring than they would otherwise.

THE question of farm manage- creasing the fertility aid very matement is attracting a great deal rially in holding the moisture in the of attention nowadays and the soil near the surface where the plants marked that the bean market is in

will probably be taken will be to raise nature's method of restoring fertility tained by conservative marketing. The a crop of poor weeds. The first year to worn soil, is that we should keep a European war, with the advance in the growth may not be very vigorous, covering over the surface of the bean prices at that time, together but the weeds will die, fall upon the ground for the purpose of retaining with the cotton situation, has preground where they will decay, and as moisture. If nature is left to have vented the United States agents of they do so they will add fertility to her way, every fall she will provide marketing from giving the Michigan the surface soil. The next year the some kind of a covering on the soil bean situation attention as promised. weeds will grow larger and a greater that will serve as a protection during If Michigan farms were placarded number of varieties will make their the freezing weather of winter. At with "Beans \$2.25 per bushel for 1914"

the surface of the soil with their cov- ers. Upon a dairy farm where nothing wonders, will it always be?

in June in 1913 he was unable to plan to Henry Rozema's where another and all of the crops raised are fed to closely than is possible in any other Then came dinner at Fremont system of farming. The next best In order that the farmers and busi- likewise an excellent orchard. The tems of farming are not desirable or

In such cases cover crops should be will have made good growth and when orchard was visited and the results of fine piece of fertilized potatoes be- successfully and therefore we should

Indiana. C. H. WHEATLEY.

THE MICHIGAN BEAN CROP.

It is generally conceded that the Another noticeable effect of here. Then back to Fremont with the Michigan bean crop is short from one million to one and a half million bushels, as compared to the crop of 1913. A conservative estimate would be a shortage of 20 to 25 per cent, based on appearances in the field and actual threshing. The United States government estimate was made some time ago at normal (eight-year average) in this state, which is a gross error, or rather an estimate made before damage by blight and other conditions was apparent.

Several influential dealers have rethe hands of the grower. In other more than ever before. It will be To assist nature, then, we should words, if the crop is put on the marfound that he is investigating the arrange a rotation that will include ket as it can be handled prices will crops that can be grown in his sec- some crop every few years that we be maintained at not less than a \$2

The food value of beans, as comclimate and which varieties are the a crop as this should be a legume, be- pared to flour and meat prices, and cause of the power of the plants of also cost of production, should not go No set rules can be laid down in this family to gather nitrogen from below four cents per pound to the answer to these questions as our soils the air by the aid of the bacteria that grower. I enclose clipping from a and climate differ radically and one live upon their roots. There is an paper published in the center of one must use his best judgment, and profit other reason why these crops should of the best bean growing sections of by his and his neighbors' experiences be grown more, and especially for the Michigan. Much damage was done to in selecting his line of farming and purpose of turning under, and that is beans in the northern belt by wet

returns. There are certain principles soil so deeply. Raising clover, alfalfa Several conferences were held this that should be followed in every case, and such crops is not like growing summer with bean growers and a rephowever. We must do everything in the grain crops that have roots that resentative from the Department of accordance with nature and her laws, feed so near the surface. When the Markets at Washington. A tentative and take every opportunity that we former crops are grown the plant food plan was agreed upon for the organifor a depth of five or six feet is being zation of the Michigan bean growers. If a piece of wornout ground is left made use of. Nourishment from this This body would thoroughly know the alone for a few years and nothing is depth is brought to the surface and acreage and yield, together with the done on it in the way of cultivation, used in making the crop that after- general market conditions. The plans nature will start in at once to build wards, if turned under, will deposit it embraced some of the ideas of the up the soil and restore the fertility within the first eight or ten inches of lima bean growers of California. The price of beans would be made in ac-Another lesson that we learn from cordance with conditions and main-

appearance. The roots will go deeper this season such a covering has other as the railroads have been with "safeinto the soil and feed upon the plant functions aside from holding mosture. ty first," the price would be mainfoods that could not be reached by It prevents washing away of soil at tained. If 50 bean growers would roots of the weed crop that was times of thaws or heavy rains. It is meet at some central point in Michion the land the year before. This also a great protection for seeds of all gan within the next two or three thicker growth of weeds will, when kinds during the cold weather, for weeks, the situation could be staged they decay; add more fertility to the when so covered they will not winter- to accomplish at least as much as the surface soil where it is more readily kill and will make growth below if cotton growers of the south have available for the use of crops or not above ground, earlier in the done. When one sees the splendid organization of the Michigan Bean Jomof vegetation continues from year to Nature always returns to the soil bers' Association, who would as a rule year, and each season it becomes all of the vegetation that is produced prefer a safe merchandising proposithicker and heavier as the fertility is on it. This is something we cannot tion to a speculative business, and brought up to the surface and as the do, however, and make a profit from then realizes that the bean jobbers' amount of decaying vegetable matter our farms, but there are some systems association has no allies among the or humus increases in the soil. Trees of farming where it is possible to a farmers in accomplishing what would will make their appearance and cover much larger extent than it is in oth- be mutually desirable and gainful, he

Practical Science.

DISINFECTION AND DISINFEC-ANTS.

BY FLOYD W. ROBISON.

of diseases and in the destruction of transit from state to state. insect pests is the employment of disinfectants, and other suitable means of disinfection. Surgery is im- parasite on the Texas cattle, was the possible without disinfectants. The agent which carried the germs of the the employment of effective disinfec- of eradicating this disease that this tion. It may thus be seen that disin- power was placed in the hands of the fection and the employment of disin- government. The method in vogue to fectants has followed closely on the most effectively rid stock of this pest heels of bacteriologic discoveries. The was to dip the cattle in a dilute soluscientist working in his laboratory tion of creosote oil disinfectant. Creodepends upon disinfectants for his se- sote oil used for this purpose contains curity against infection. The surgeon varying quantities of a coal tar acid employs disinfectants to prevent in known as cresylic acid. Cresylic acid fection in the operating room, infec- is analogous in a general way to cartion not alone of the operator but of bolic acid and while perhaps as effecthe patient as well. The health officer tive, and perhaps more so, than caremploys disinfectants as disinfection bolic acid as a germicide it does not is compulsory in cases of epidemics of seem to have the toxic properties so contagious diseases to prevent further generally accredited to carbolic acid. spread of the contagion. The employ- Cresylic acid, therefore, rapidly grew ment of disinfectants has been one of in favor as an agent in the dipping of the distinct marks of the advance of cattle and creosote oil containing civilization.

Many Kinds of Disinfectants.

There are a great many kinds of for this purpose. disinfectants, some working on one principle, and some on another. Some taken internally by man or animals, others in small quantities are not exceedingly poisonous. Probably one of bons was a very effective agent for the most efficient disinfectants in use combating the Texas fever tick, and as as far as its activity against bacteria many manufacturing companies began and germ life is concerned, is bichlor- to place upon the market this product ide of mercury, sometimes called corrosive sublimate. Its exceedingly poisonous nature, however, has made its which were used for the above named general employment unsafe and accordingly undesirable. Probably as satisfactory a disinfectant as has ever been used is carbolic acid, or phenol, upon analysis by the Bureau they as it is chemically known. This product, a product of the distillation of product for official dipping, providing coal tar, has enjoyed a world-wide reputation as an excellent germicide. Two General Classes of Disinfectants.

In this connection it may be well to state that disinfectants generally are divided into two distinct classes; those which exert their primary influence on bacteria and germ life are called germicides; those which are intended especially for the repelling of insects are known as insecticides. Sometimes the disinfectant is both a germicide and an insecticide, sometimes simply a germicide and sometimes simply an insecticide. Bichloride of mercury, or corrosive sublimate, is primarily a germicide although it is destructive as well to certain forms of insects. Carbolic acid is also a germicide and in many respects it is likewise an insecticide. Formaldehyde is usually called a germicide alone and little value is given to it as an insecticide.

Coal Tar Disinfectants.

one of the most interesting classes of way of measuring the comparative disinfectants which have been offered disinfecting values of two products. for sale are the general classes as creosote oil and coal tar disinfect- ant in use is carbolic acid, and the ants. These products as a rule con- public generally has some idea of the sist of more or less crude creosote oil value of carbolic acid as a disinfectcombined with a combination of rosin ant because at one time or another and soda solution. This is essentially, nearly every person has employed carit will be seen, a solution of creosote bolic acid in this capacity. If, thereoil in rosin soap. Of course, soap it- fore, the disinfectant in question could self has a certain disinfecting value, be given some rating alongside of carbut for certain purposes creosote oil bolic acid it was supposed that its has been found to be very efficient as real value would be most thoroughly an insecticide and in some respects as appreciated by the public. a germicide as well. Several years ago when the movement of cattle throughout the country became quite jurisdiction of the Bureau of Animal is for new subscribers only.

Industry certain powers with reference to the control and standardization of certain disinfectants used to eradicate insect pests and the accom-The modern way in the treatment panying diseases from live stock in

The Texas Fever Tick.

It was found that a certain tick, a combating of the spread of contagious Texas fever from one cow to another diseases is scarcely possible without and it was primarily for the purpose varying quantities of this cresylic acid became the general product employed

Strength of Solution.

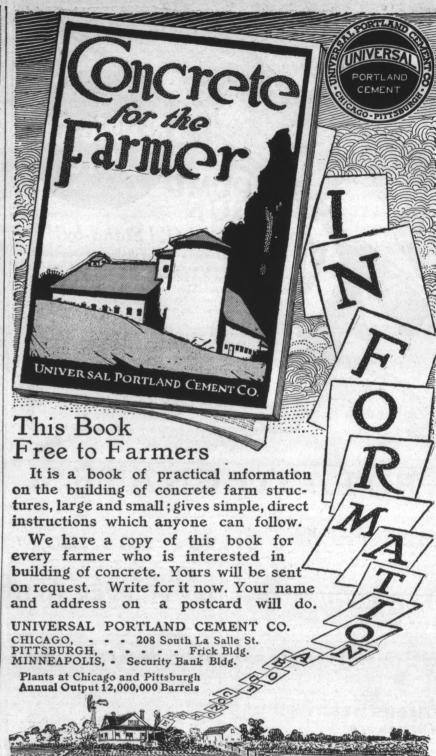
It was found by the government that disinfectants are exceedingly toxic if a solution in water containing about 0.2 per cent of cresylic acid and about 1.00 per cent of coal tar hydrocarsteps were taken early by the government to standardize all these products purposes. Manufacturers accordingly were asked to submit their product to the Bureau of Animal Industry and were given permission to use their they would use it in the proportion directed by the government. products therefore, when conforming to the above requirements became more or less official under the protection of the United States Bureau of Animal Industry.

Germicidal Power.

In the natural progress which has been made with these products there has arisen a demand to know just how efficient they were for germicidal purposes, and the difficulty arose of ascertaining some way of measuring the real germicidal power of the disinfectants. Bichloride of mercury, for example, is considered an efficient disinfectant when a 1-10 per cent solution, or one part in 1000 solution, is prepared. Carbolic acid requires a much stronger solution for efficient disinfection. One disinfectant will be effective apparently in a 1-100 per cent solution applied to typhosis germs and much more effective when applied to some other germs. So that a difficul-From an agricultural point of view ty arose in establishing any standard Probably the most

(Continued next week).

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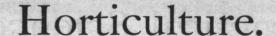
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HOW WE KEEP APPLES.

We have had considerable experience storing apples for home use and apples can be frozen as solid as rocks have learned many things which we when buried, and if left there until believe will be of advantage to others the frost comes out of the ground in desiring to keep apples this winter. the spring, will be perfectly sound,

"keeping quality," which is absent those kept in the cellar. from summer and fall apples.

The Time to Pick for Keeping.

Apples to be kept until spring should be picked as soon as ripe; that is, when full grown, and the seeds the result is that many of the largest bruised and is wasted. Those which still hang on the trees become overripe, and sometimes scalded by the hot sun. Until ripe, the apples exposored, but after this the sun is a damage and the apples should be picked and placed in a shade. They should keeping quality of apples.

was thick and sticky. A bruise, and at any price. even a wound in the skin, dried quick- The merchant said he had found it ly without causing a rot. I have seen practically impossible to dispose of apples of this variety with a small the fruit. In fact, several boxes on piece knocked entirely out by falling the floor were consigned to various on a stone, that had healed over and fruit dealers as a compliment from was sound in the spring. They were the commission house. The dealer good eating apples and excellent said he found this necessary in order keepers.

Care After Picking.

carefully on a clean floor. They are experienced much difficulty every year not piled up high but are spread as in matters of this sort, as some fruit keep the temperature as cool and covered with paper. bags; the small ones, and those with growers would pay more attention to rotten spots, are taken to the basecows and pigs.

until there pearance that winter is just at hand. New York. A pit is made, only a few inches deep, 15 feet long and three feet wide. ples should not be buried as deeply as line of goods.

potatoes. They can stand cold weather better.

Some people may not believe it, but In the first place we found that ap- and as palatable as if they had not ples from thrifty growing trees will been frozen. I opened a hole of apkeep longer than apples of the same ples one winter and found them frozvariety grown on old declining trees. en so hard that they rattled like We had several Spitzenberg trees that round stones as they rolled down. I when in their primal vigor grew ap- closed the hole tightly with dirt and ples that kept well until spring- when opened in the spring after the equally as well as Baldwins-but frost came out of the ground, were when they became old, many of the found to be as sound and good tasting apples would be found rotting on the as when buried. Apples kept in the trees, and the sound ones when pick- kitchen cellar are kept as cool as posed, and given the best of care, would sible without freezing. Laid on the decay sooner than when the trees shelves so they don't touch each other were young. They seemd to have lost none will rot. Apples that are buried that peculiar property we call the will taste fresher and better than

J. W. INGHAM. Pennsylvania.

PEARS FOR WINTER USE.

During the past few years large black. If left on the trees after this quantities of pears have been sent to they are sure to be more or less dam- New York, and placed in cold storage aged for keeping. Nearly all farmers for winter use. Western pears are put off apple gathering too long, and not uncommon in the New York markets on fruit stands during December, and finest flavored fruit falls off, gets January, and later. Winter Nellis pears packed in boxes were seen one winter in the salesrooms of a wellknown commission house in New York. Each pear was wrapped neatly ed to the sun will be the highest flav- and carefully packed in boxes. This fruit had been in cold storage, but there was little or no sale for it. The merchant said that one year ago the also be picked before there is any same party who sent these pears from likelihood of a frost. Our experience his Colorado orchard sent others, but is that one hard frost will injure the they were poorly selected, badly graded and not well packed. As a conse-We had a variety of winter apples quence they were not satisfactory to called the Fall Pippin which, under the buyers. Last winter the fruit was favorable conditions would keep until in much better condition, more care-June, and for a wonder bruised ap-fully graded, but the same parties ples would keep nearly as well as who bought the previous winter stock those carefully handled. The juice avoided it, and would not take them

to convince his customers that this fruit was of better quality than fruit As soon as picked our apples are of the same variety sent them the taken to the storehouse and emptied previous winter. He said that they much as possible. The shutters are growers seem to think they get the closed to keep out the sun, and to fancy prices for anything that was

even as possible. Late in the fall, on Anjou and Winter Nellis pears a pleasant day, the shutters are open- properly put up, will be eagerly ed and the apples are closely sorted. bought up at a good price in the New The large, fair apples are put into York market next January. If fruit the picking, handling and marketing ment of the barn where they are kept of late varieties of pears, there is evwithout freezing until fed out to the ery reason to believe there would soon be a good market demand for The bags are stood up together, old them. The pears above mentioned of carpets are spread over them to pre- medium size often sell in New York vent freezing, and they are left in the markets on local fruit stands in Deap- cember at 25 to 60 cents per dozen.

S. VANAKEN.

Although South America imports Straw is placed in the bottom, the ap-about \$15,000,000 worth of canned ples emptied on it until it is shaped goods ahnually, the United States furlike a house roof. Straw is placed on nishes only about 18 per cent of the the apples and on the straw about five total, of which the principal item is inches of dirt. A roof of 16-foot boards canned salmon. That the sales of is made by beginning at the bottom, canned goods in this field can be lapping them on each other, and greatly increased is the opinion of slightly nailing. The roof prevents the Commercial Agent E. A. Thayer, of apples from getting wet by rains or the Department of Commerce, who remelting snow and answers in the place cently completed an investigation of of more dirt to prevent freezing. Ap- the Latin-American markets for this

Live Stock.

THE DIAGNOSIS OF HOG CHOL- ease. A reliable veterinarian may ERA.

tion of the disease could be determin- discharges. ed by the thermometer since the temprature rises from about 102 degrees except nature, and she does very in-(normal) to 105 degrees or more be- different work in this connection. Hog fore any other marked symptoms ap-cholera can be prevented and its pear. Such a rising temperature, how-spread can be checked by adopting ever, and the following symptoms al- methods similar to those adopted in so, may be due to some other cause. the prevention and control of con-The farmer may first notice great tagious diseases of man. Do not place thirst on the part of the sick pig, an too much confidence in serum and inclination to lie in the bedding, an never use serum unless it is known to indisposition to move, drooping of the be made by a reliable laboratory and ears and tail and a roughness of the never fail to impose a quarantine on coat. The pig may stagger when your own unaffected hogs and then walking and may suffer from either isolate and disinfect. No damage is constipation or diarrnea or both alter- done if it turns out that the disease nate. The eyelids may be glued to- is not cholera when these methods are gether by the discharges of inflamma- adopted and while the serum will do tion and in some cases the pig may no good with other diseases, the other vomit. Later the skin, especially of methods suggested will be beneficial. the abdomen and ears, may become discolored, either bluish or reddish, and the pig becomes greatly emaciated and perhaps coughs.

At times the tail, ears, snout and even portions of the skin may slough off. In the meantime a greater poroff. In the meantime a greater portion of the herd may become affected. Won by C. E. Simons & Son, Geneva, There is no test that can be applied Ind., who were the only exhibitors. in the laboratory that is of any assistance in the diagnosis at this time. To make the diagnosis more sure a careful post mortem examination of the sick pig, or even of a number of the Sons, Geneva, Ind., 2nd.

Boar, 2 yrs. or more—Adams Bros., Litchfield, Mich. 1st.

Boar, 18 mos. and under 2 yrs.—Adams Bros., 1st; Geo. Ineichen & Sons, Geneva, Ind., 2nd. sick animals may be made. Since hog cholera is a disease primarily of the blood, we will expect to find hemorrhages, very minute or larger, scattered throughout the body, especially of the kidneys, of the heart, the lungs or on the smooth membranes that cover all the organs.

That lymph nodes which are dis- 3rd.

That lymph nodes which are distributed throughout the body and the spleen usually show a reddened condition due to a disturbance of the blood. Later there may be ulcers in the large intestine and the lungs may be affected with pneumonia.

When such a disease as we have described appears in a herd we make the diagnosis of hog cholera. The sooner we can determine hog cholera thereby. The use of hog cholera serum not only furnishes us the only preventive treatment that we know, but it also serves as a method of diagnosis. In other words, if we suspect

Sons, 1st; Adams Bros., 2nd; Heskett, 2nd; Adams Bros., 3rd and 4th. Sow, 1st and 2nd; Ineichen & Sons, 3rd and 4th. Sow, under 6 mos.—Ineichen & Sons, 1st; Heskett, 2nd, 3rd and 4th. Sow, under 6 mos.—Ineichen & Sons, 1st; Heskett, 2nd; Adams Bros., 3rd. Breeders' Herd—Ineichen & Sons, 1st; Heskett, 2nd; Adams Bros., 3rd. Four of either sex, get of same boar—Ineichen & Sons, 1st; Heskett, 2nd; Adams Bros., 3rd. Breeders' Herd—Ineichen & Sons, 3rd. Breeders' Herd—Ineichen & Sons, 1st; Heskett, 2nd; Adams Bros., 3rd. Breeders' Herd—Ineichen & Sons, 3rd. Breeders' Herd—Ineichen & Sons, 1st; Heskett, 2nd; Adams Bros., 3rd. Breeders' Herd—Ineichen & Sons, 1st; Heskett, 2nd; Adams Bros., 3rd. Breeders' Herd—Ineichen & Sons, 1st; Heskett, 2nd; Adams Bros., 3rd. Breeders' Herd—Ineichen & Sons, 3rd. Breeders' Herd—Ineichen & Sons, 3rd. Breeders' Herd—Ineichen & Sons, 1st; Heskett, 2nd; Adams Bros., 3rd. Breeders' Herd—Ineichen & Sons, 3rd. Breeders' Herd—Ineichen & nosis. In other words, if we suspect nosis. In other words, if we suspect cholera as a result of the symptoms which I first indicated, the use of the serum on all the healthy hogs should prevent the further spread of the disease. If it does not, we are inclined to conclude that the disease is not hog cholera. We think this conclusion justifiable in those cases where potent in the control of the contr justinable in those cases where potent serum is properly applied. This method of treatment should be always adopted, the serum should be procured through some reliable source and the sou under no circumstances should de- 4th. under no circumstances should dependence be placed on any other preventive treatment than the serum made according to the method devised by the United States government.

We know of no cure for this dis
4th.

Sow, 12 mos. and under 18 mos.—

Kite, 1st; Fisher, 2nd and 3rd.

Sow, 6 mos. and under 12 mos.—
Fisher, 1st.

Sow, under 6 mos.—Kite, 1st and 2nd; Fisher, 3rd and 4th.

(818 93ed uo penunuo)

give helpful prescriptions and advice along the lines of diet and care that The positive detection of hog chol- may assist nature, but the farmer era is not always easy. With some should beware of quacks and patent infectious diseases the diagnosis is medicines that have not been proven made possible either by finding the by disinterested parties to be effecgerm or by some reliable and specific tive. The use of the srum alone and test. With hog cholera this is not the the destruction of all the sick hogs case. The diagnosis of hog cholera is together with thorough cleaning and usually the result of one's judgment disinfection of premises should perbased on the study of the history of manently check the spread of hog the case, the surroundings and the cholera and prevent its reappearance appearance of a case, both before and on the unaffected farm and what is after death. The diagnosis even then of equal importance, prevent its is only an opinion and is either con-spread throughout the community. firmed or rejected by future develop. The serum should be used early in the ments. We believe in this country course of the disease and affected that there is only one highly contagi- hogs should be isolated so that dogs, ous disease of swine and we call this birds, as well as careless individuals disease hog cholera. The first indica- cannot have access to them or to their

There is no cure for hog cholera Mich. Ag. Col. WARD GILTNER.

LIVE STOCK AWARDS AT THE STATE FAIR.

Poland Chinas.

Chester Whites.

Boar, 12 mos. and under 18 mos.—
Geo. W. Heskett, Fulton, O., 1st;
Adams Bros., 2nd.
Boar, 6 mos. and under 12 mos.—
Heskett, 1st and 2nd; Adams Bros.,

Boar, under 6 mos.—Heskett, 1st and 2nd; Ineichen & Sons, 3rd and

4th. Sow, 2 yrs. or over-Ineichen Sons, 1st; Adams Bros., 2nd; Heskett

Large Yorkshires.



Bought his Studebaker when Grant was president

IGHT after General Grant had been elected, Mr. Thomas North, of Andover, Ohio bought a Studebaker Farm Wagon. He has been using it ever since and this is what he writes to Studebaker:

"I think I have the oldest Studebaker Farm Wagon in this part of Ohio. It was bought in the Spring of 1872 from Mr. Sed Wade, your agent for Andover.

"For several years it was used on heavy loads and has been in constant use on a farm of 140 acres ever since.

"In the past month I have loaded with coal up to 30 hundred, hauling the same three miles over bad roads. "My Studebaker has never been to the shop for repairs, and it is good for years yet."

41 YEARS OF SERVICE

—and faithful service too, for you will notice that Mr. North's Studebaker Wagon has

never been to the shop for repairs.

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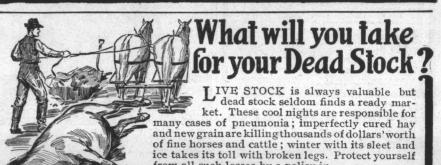
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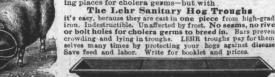
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THE LEHR AGRICULTURAL COMPANY.

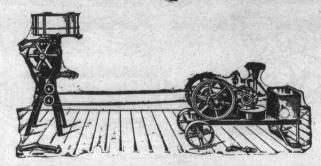


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FREMONT, OHIO Dept. 30

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These separators have all the points which make cream separators good. They have the balanced bowl, the self-adjusting neck bearing, the tool steel spindles, the bronze bushings, the spiral gears, the low supply can, the high skim milk spout, and the open, sanitary base, without which no separator can

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Peg, Spring-Tooth,
and Disk Harrows
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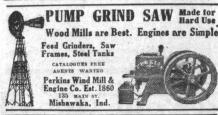
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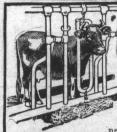
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CONDUCTED BY COLON C. LILLIE.

RESULTS IN FEEDING DRY ROUGHAGE.

For several years silo manufacturers and writers in farm publications have been telling us that it is necessary to add succulency to the ration fed our cows, if we would have them produce the maximum amount of milk at least possible cost. I believe that but I also believe that every winter a large number of cows are compelled to eat silage that should be condemned, as unfit to feed cows producing milk for human consumption.

I have been selling milk for ten in December, and they produced as salt all utilized.

Sold Sold	\$ 66.32 89.09 106.17 138.07 138.65 117.61 118.87 72.81 58.92 30.66
July 806@ 1.37½ August 602@ 1.47½	11.08
Total57,437 Fed to calves2,500 Used in house1,500	\$957.12 35.00 25.00
Total61,437	

.....\$1,027.12 Total The above represents the price of milk delivered. The milk tested 3.7 per cent butter-fat. Valuing five calves raised at \$5 at birth brings the above total up to \$1,052.12. My oldest boy is nine years old. With his help and eight to ten dollars' worth of outside help we get through the season.

Two calves sold.....

I am feeding pretty close to 100 lbs. would bring better than \$4.50 per day delivered.

Oakland Co. H. PETERS.

MORE ABOUT THE LATH AND PLASTER SILO.

In regard to your plan of a lath and plastered silo, which you described in the August 22 issue, I would like to have more of your information about it. Would the lath be all right at half or three-quarters of an inch by three-inch? I have oak I could use for that purpose. Is there any danger of moisture rusting the nails? Would it be good to give it a coat of plaster on the outside between the studdings and then put on the siding? Should there be any airholes above the sill to give it an air circulation? to give it an air circulation? O. F. Iosco Co.

tar. For one silo we picked up pieces cow is dry. of boards, the waste from building, a into strips two to three inches wide have used it many times with success. and nailed them on; this is just as good as any. What we want is a

good smooth surface of cement plaster. The nails will not rust. How can they, no moisture can get to them? The silo can be lathed and plastered on the outside as well as on the inside but it would not be as cheap as halfinch siding. You don't need the tight cement coat on the outside. No airholes are necessary.

SEALING THE SILO WITH SALT.

Has any one had experience with putting salt on top of silage to keep same from spoiling. I either read or heard of it somewhere and would like to try same if there is anything in it. Allegan Co. C. W.

I had my first experience with salt to preserve silage, last year. I had good ensilage is an economical feed, never heard of the practice before that. It certainly is a great help and if thoroughly and properly done will preserve the silage with practically no loss whatever. We tramped the silage thoroughly and smoothed it off fairly well, and then spread on the years and have fed practically all corn salt. In one silo we did not put suffiin the bundle as it come from the cient salt to keep the air out, and a binder. Cleaning stalks out of the little of the silage spoiled. In anothmanger is a disagreeable job but it er we put more salt and there was takes but a few minutes from every very little loss. Had we taken a litday. I am fortunate in having plenty tle more pains to tramp the top, and of barn room or I might think more been a little more careful in smoothfavorably of a silo. During the year ing the top, I am confident there ending September 1 I milked seven would have been no loss. It takes at cows. One of the cows, a heifer, least two barrels of salt for a silo 15 calved in June, three cows in August, feet in diameter. The salt, however, one three-year-old in September, one is not wasted, for the extreme top of cow in October and a three-year-old the silo can be fed gradually and the

USING A TANK HEATER.

We are building a shed with a tank-house in one end of it and are wondering if it will be better to build a cement tank and use a tank heater or to have a tank that we can let the water out of in the winter and thus give the cows fresh water right from the well. Some men say cows do better on warm water and some claim they do not.

Dundee, Mich.

H. J.

If your cows have to go outdoors in the winter time to drink, I think it would be better to have a tank full of water and then heat it with a tank heater. On cold days water from the well will be most too cold. You will not water them more than once or twice a day and the cows will drink so much of it in the cold, cold water from the well, that it will tend to chill them. If your cows are in good warm stables then it would be different. I should think then that water fresh from the well, or of a little cooler temperature, would be relished more Now we are milking seven cows, than the warm water. There is anone of them a three-year-old and an- other thing to be considered, and that other a two-year-old. They are pro- is that it is not always convenient to ducing 300 pounds or better, per day. pump the water fresh. Sometimes we have many other things to do at the per day to six calves. The 300 pounds same time, and it is quite a chore to have to pump the water every day fresh from the well for the cattle, but if you have a storage tank it can be pumped with a mindmill and you will always have water on hand, and all one has to do is to fire up the tank heater and keep the water warm so that it will not freeze.

CURING COWS LEAKING MILK.

We saw a query from W. F. S. in the Michigan Farmer, with reference to cow leaking milk. We have bought leakers and hard milkers of good quality and have cured them by making a blister of corosive sublimate and a little grease of any kind. This should be made into a paste and a small Nearly every kind of lath imagin- amount applied close around orifice of able has been used for these silos teat. It will soon blister and if let with success. It makes but little dif- alone will contract and close the opference about the kind of lath, any ening enough to stop the leaking. thing that will hold the cement mor- This had better be done when the

This remedy will also close up a barn, sawed them into 16-inch lengths, hole in the side of the teat, although just long enough to reach from one it may need two or three applications studding to another, then split them to close a bad one. It is cheap and I

CHAS. HUNT.

New York.

DRAINING THE SILO.

I am going to build a silo. Now I wish to know if I should leave a hole in the bottom of the silo, with a tile leading from it. Van Buren Co. W. F. M.

The silo should be as near air-tight as it is possible to make it. Under no consideration leave a hole in the bottom for drainage. If you do, air will enter the bottom of the silo and the result will be a lot of spoiled or rotten silage. A hole near the top of the silo would not be so serious, because you would soon feed down away from it, but an opening for air at the bottom might cause an immense amount of silage to spoil. If you can

ELEVATING BEET TOPS INTO THE

juice will not run out.

make your silo so tight that the corn

Saw your article in the Michigan Farmer on putting beet tops into a silo, and if they are put in without cutting, was wondering how you woul get them in. There are no silos near our farm and it would be difficult to get a filler. We have about 60 acres of beets and didn't know before that the tops would make silage and as yet we have no silo. If I could find out the particulars at once, I would still have time to put up one. It would save us a lot because, otherwise, we would have to buy a lot of roughage this winter.

Gratiot Co.

P. F. C.

I built one silo for the purpose of

I built one silo for the purpose of storing sugar beet tops. I built it right by the side of the driveway that goes into the barn. This driveway is about eight feet high. Then, when the beet tops are loaded into the ordinary beet rack one can pitch them in so that the silo will be filled about 15 feet without very much trouble. To get it higher than this, of course, they have to be elevated. One year I rigged up an old-fashioned slat carrier and ran this with a gasoline engine. It worked very nicely. Of course, if you could get a man who owned an ensilage cutter to use his machine for this work, you could elevate them

I have an idea that if I have to elevate beet tops again into the silo, that I would rig up a big bucket that would hold one-third or one-half of a load of beet tops and fix up a gin pole with a pulley. Then elevate this with a horse and dump it into the silo. I believe it would work all right and would be an inexpensive way of getting the tops into the silo. It may be it wouldn't work as well as one would think, but I believe it would be the cheapest way that one could elevate the beet tops into the silo.

with the modern ensilage cutter.

LINING FOR SIL@ DOORS.

Is it all right to put tar paper on the inside of the silo doors to exclude the air?
Grand Traverse Co.

It is not necessary to put the paper over the entire door. Simply put it around the jamb of the door and then shut the door tight against it. In this way the paper acts the same as a gasket for a steam pipe or a gasoline engine cylinder. Of course, if your side doors are only one board thickness it would be better to put the paper over the entire surface.

THE NATIONAL DAIRY SHOW.

The Annual National Dairy Show will be held in Chicago, October 22 to 31. During this show everything new and of interest to the dairy interests will be shown. Meetings and conventions of various associations interest. tions of various associations interested in the dairy business will also be held. Arrangements of the meeting of 15 such associations are already

A good judging program is arranged and the premiums offered are worthy of the raisers of high quality dairy cows. Students' judging con-

dairy cows. Students' judging contests are also on the program and the agricultural colleges will have teams there for the competition.

Every day will be a special day. Each dairy breed will have a special day as will also the various dairy and farmers' organizations. For their own benefit dairy farmers are urged to attend this show.

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Our All-Weather tread—used on Goodyears alone—is a matchless anti-skid. It is tough, double-thick and enduring. It is flat and regular, so it runs like a plain tread. It grasps wet roads with deep, sharp, resistless grips. No wheel should be without it.

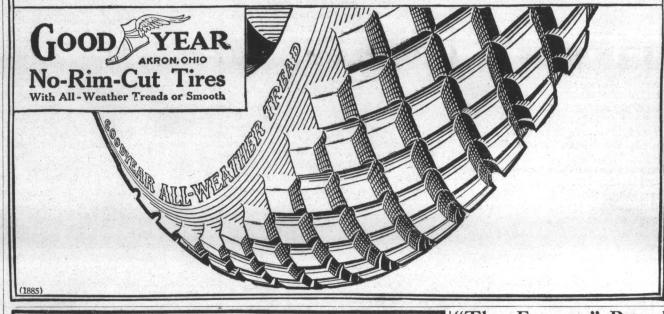
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You do not have this opportunity; but call on your dealer and examine the finished shoe. Ask to see No. 408. Examine the

leather, tough, pliable, serviceable. Note the heavy stitching, the waterproof soles, the double thickness on the toe, and if you want a really good shoe you will not hesitate to buy No. 408. Look for the trade-mark on the sole. Write Dept. F for free descriptive book.

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DETROIT, OCT. 10, 1914.

A FEW LEADING ARTICLES OF THE WEEK.

Late Fall Plowing.—A discussion of the advantages and disadvantages of fall plowing on different

Follow Nature's Methods.-In the building up of the fertility of the soil we can do no better than to follow nature's methods, here described298

Disinfection and Disinfectants .-An explanation of the character and uses of common disinfect-

How we Keep Apples .- A discussion of the essential factors in keeping apples for spring and summer use300

The Diagnosis of Hog Cholera .-A practical treatise on the recognition and handling of cholera

Selling What You Raise.-Practical pointers on the marketing of the products of the farm to best

Developing the Young Pullets .-Pointing out the importance of such development and the meth-

CURRENT COMMENT.

Full courses in agri-Agriculture in High Schools.

Eleven high schools began this work with the present school year, which indicates the progress which is being made in the teaching of agriculture in the high schools of Michigan. Last year approximately 1,000 boys took agricultural work of different grades in these schools, and 356 young women to were also enrolled in certain of the

which is not in accord with the sober second thought of the electorate. For these reasons we have considered it a public duty to call the attention of Michigan Farmer readers to the subject matter of proposed amendments to the constitution of the state prior to the election at which same are submitted to the electors for ratification.

Several proposed amendments submitted by the last Legislature to the electors of the state for their approval were voted on at the spring election held in April, 1913. A few others will, in accordance with the resolutions of the two houses of the Legislature, be election to be held in 1914, which will be the coming November election. Among these the most important, advantage312 hence the first to be commented on, is a proposed amendment to section 10 of article 10 of the constitution, the purpose of which is to permit the issuods by which it can be attained .. 316 ing of state bonds for the purpose of improving the public wagon roads of the state. This section, including the proposed amendment, reads as follows:

Sec. 10. The state may contract culture are now being debts to meet deficits in revenue, but given in forty-two high such debts shall not in the aggregate schools of Michigan. at any time exceed two hundred fifty thousand dollars. The state may also contract debts to repel invasion,

When the young man, or the old man either, for that matter, is once provement.

It is to be regretted that the framculture from the standpoint of the student, his life as a farmer has been worded it as to make it include a greatly broadened. So, also, has his vital principle of government as well usefulness in the community, for these men who have learned to supplement their practical experience with experimentation and study on distant future, seem entirely proper at their own initiative are bound to attend the pin raising the plane of agriculture taught in our high schools will aid the fathers as well as their sons.

It has ever been the state to issue bonds or contract debts for any purpose except in the state while an estimate of the German advices are that some of the forts have been acted on by the state, and for this particular provisions submitted to the voters of the state and any voice in the proceedings, circumstances are easily conceivable in which are of necessity submitted to the electors some time after they have been acted on by the Legislature, and of which the averaged the voters of the save and many alunched to proposed amendment so this proposed amendment so that the stancy and in provision and the process of the state to issue bonds or contract debts for any purpose except in the state which it might be desirable to greatly moderated the voters of the state and any voice in the proceedings, circumstances are easily conceivable in which are of necessity submitted to the electors some time after they have been acted on by the Legislature, and of which the averaged the voters of the state, which are of necessity submitted to the electors some time after they have been acted on by the Legislature, and of which the averaged the voters of the state, which are of necessity submitted to the electors some time after they have been acted on by the Legislature, and of which the averaged the voters of the state, which are of necessity submitted to the electors some time after they have been acted on by ted to the electors some time after they have been acted on by the Legislature, and of which the average voter would naturally have little knowledge at the time of their submission unless his attention was specifically directed to the matter. Meritorious propositions are often defeated at the polls for the simple reason that a large percentage of the voters of the state do not thoroughly understand them and, less frequently prepages. A proposition is adopted questionably be desirable for Michigan to be in a position to avail herself of such aid, and it is a most unfortunate that this amendment is so worded as to compel the voters to an worded as to compel the voters to approve such a plan, if at all, at the expense of delegating their right to determine the extent or terms of the debt to be incurred to the Legislature of the state without other restrictions than the general purpose to tions.

Congress expects to adjourn the present session October 17. For 18 months the country's lawmakers have been considering matters of public concern despite the fact that most of the state without other restrictions. tions than the general purpose to which the funds so raised shall be applied.

We are strongly in favor of the improvement of the common than the general purpose to was reported at New Orleans Monday. This is the tenth death. It was thought that the epidemic had been eradicated.

An active program for the health.

we are strongly in favor of the improvement of the common roads of of a greater United States navy has the state, and the progress of such been started and during the next regular session of Congress an attempt will be made to provide for 19 that we are in line with public sentiment in this direction. The people of many counties in which the county all politics makes necessary a strong-road system has been adopted have er naval force. The completion of the road system has been adopted have er naval force. The completion of the shown that they were not opposed to Panama Canal, the restriction of Asia. shown that they were not opposed to tic immigration, the integrity of Chithe issuing of bonds for that purpose. na and the open door for her trade If this question were put fairly up to are among the problems with which the voters of the state it is entirely America must be ready to cope. probable that they would approve of an issue of state bonds for the same purpose. But this proposed constitutional amendment also involves the question of delegating to representatives, yet to be selected, this very power which is the voter's inherent right, and if the amendment is defeated the over zealous framers who overlooked or underestimated this factor can blame only themselves.

HAPPENINGS OF THE WEEK.

Foreign.

The European War.—Desperate fighting has continued the past week in all the theatres of war in Europe. In the west claims have been made of victories by both sides but it would probable that they would approve of

the high schools of Michigan. Last year approximately 1,000 boys took agricultural work of different grades in these schools, and 356 young women were also enrolled in certain of the agricultural subjects. This year the number of high school students doing agricultural work will be increased by about one-third.

This wording is identical with that the section as it now stands, except for the sentence relating to the sisuing of bonds for good roads, which it is added and is the gist of the proposal in the fundamental principles of agriculture, means much to the future of Michigan agriulture. Many of these young people will become so interested in the subject that they will go back to the farms of the state and do constructive work in the betterment of the agriculture of their respective communities. Others of them will become teachers in the primary schools.

Foreign.

The European War.—Desperate fighting has continued the past week in all the theatres of war in Europe. In the west claims have been made of the section as it now stands, except for the sentence relating to the sisuing of bonds for good roads, which is railed and is the gist of the proposal in the primary shools and girls in the fundamental principles of agriculture, means much to the future of Michigan agriulture. Many of these young people will become so interest ed in the subject that they will go back to the farms of the state and do constructive work in the betterment of the agriculture of their respective for this specific purpose to the limit of the agriculture of their respective communities. Others of them will become teachers in the primary shools of the state, where their training will enable them to give efficient instruction of the desirability of the improvement of the wagon roads of the state through the purpose for his past the payment in the purpose of better establishing the training will be provided the proposition wholly apart from the purpose of better establishing the training will be provided the proposition which is revoluti

Citizens Sav. & T. Co., Trustee, Cleveland, Ohio.

Cleveland, Ohio.
George Lomnitz, Guardian, Cleveland, Ohio.
Mrs. G. B. Rogers, Cleveland, Ohio.
Lllian Cotton, Cleveland, Ohio.
E. D. Pope, Cleveland, Ohio.
R. M. McConville, Cleveland, Ohio.
E. H. Houghton, Detroit, Mich.
G. J. Munsell, Detroit, Mich.
F. H. Nance, Lakewood, Ohio.
Known bondholders, mortgagees,

Known bondholders, mortgagees, and other security holders, holding one per cent or more of total amount of bonds, mortgages, or other secur-

ities: None. EDGAR H. HOUGHTON, Secy. (Signature of editor, publisher, business manager, or owner).

Sworn to and subscribed before me this first day of October, 1914.

CLARENCE E. HAMLIN,

Notary Public, Wayne County, Mich.

(My commission expires October 12, 1917).

(Seel)

(Seal).

Magazine Section

LITERATURE POETRY HISTORY and **INFORMATION**



The FARM BOY and GIRL SCIENTIFIC and MECHANICAL

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

Caste System Thwarts Hindu Progress

HERE is an old limerick which everyone has heard time and again, that runs as follows:

"The poor benighted Hindu He does the best he kin do, He sticks to his caste From first to last

monette on Hinduism.

are over 4,000 different castes. The word "estimated" is used advisedly for no man who lives would pretend to say exactly how many different castes there are in India.

No member of one caste is allowed to marry into another caste, nor is it permissible for a person to eat with one of another caste, or even to eat food cooked by any one belonging to a different caste from his own. The Brahmans belong to the highest caste and the Sudras are the lowest, but the subdivision of the four original castes has brought about a gradation in rank from the highest to lowest caste that is beyond the understanding of the Occidental mind, and, in fact, no Hindu even claims to know the relative standing of all the castes. Below all of the castes are fifty millions of people who are "outcasts," or in other words, belong to the "untouchables" for merely to touch one of them

becomes one of the "untouchables."

A man is born into a certain caste being outcasted. and can not by any means become a fond of calling them), but strive as he could not have been eaten by any and do a thousand other things that disastrous.

By PROF. ALFRED VIVIAN.

And for clothes he makes his skin do." of ours had working for him a sweep- caste is losing its hold upon the In- flattered. Scarcely less worshipped is These lines written as the veriest er (which, by the way, is one of the dian people but it is difficult to im- Durga, the bloodthirsty wife of Shiva, piece of nonsense rhyming are in very lowest castes) who made a de- agine that the hold of caste could who is said to delight in destruction reality a brief but comprehensive ser- mand for more pay. The employer have ever been stronger than it is at and bloody sacrifices. said: "I can not pay you more for the present time. Of the three hundred and fifteen sweeping which takes only a small million people in India, over two- part of your time, but if you will also it, the caste system will never die out at Madura in Southern India. The imthirds belong to the Hindus or the work in the garden I will increase for they depend upon it to retain their mense structure is one of barbaric followers of Brahmanism. One of the your wages," to which the man position in life and their hold on the splendor and like all the truly Hindu principal tenets of this religion, or agreed. The next day the regular population. Naturally, they rather entemples is replete with wonderful state of society, or whatever it is (for gardener came to the house and said, joy the sensation of being the top of carvings. The several high towers its followers themselves are not sure "Sahib, give me my pay. I can not the heap, and being able to dictate to are covered with carvings representthat it is a religion) is that which di- work for you because you have sent the lower castes in all matters both ing scenes from the lives of the gods, vides the people into "castes." Orig- a sweeper out to work in the gar- temporal and spiritual. inally there were only four castes; den." It was not that the man so i. e., the Brahmans, or priests, the much minded working beside a sweep- Hindus consists in the worship of the commands great admiration. We have Kshattriyas, or soldiers, the Vaisyas, er, but he knew that if he did so he one god Brahma, in his three personal seen hundreds of Hindu temples durincluding agriculturists and trades- would be outcasted. An English lady manifestations of Brahma, the creat- ing the last few weeks and are ready men, and the Sudras or common lab- we met tells of a "bearer" (a servant or; Vishu, the preserver, and Shiva, to pronounce them among the filthiest orers to whom fell the most menial who waits at the table), whom she the destroyer and reproducer. These places to be found in the world. Ap-Gradually, however, these asked to remove a cobweb which was gods have various wives, sons and parently no attempt is made to keep castes have been divided and sub-di- in the corner of the ceiling. To re- daughters who come in for a share of them clean. Shops of all kinds are vided, until it is estimated that there move it he tied a feather duster on worship also. As a matter of fact, the found in the corridors and all waste

of India for exclusiveness. A friend lose caste. It is sometimes said that makes him a god to be feared and

tion of a kind and merciful God, conspised the cast to which he belongs. course), fell upon the food it would sequently, the god to whom the great-The trade unions of the United be unfit for use. To eat such food est number of temples are dedicated States are not "in it" with the castes would mean that the partaker would is Chiva whose terrible character

The most wonderful of the temples If the priests have their way about dedicated to Shiva is the one located and are hideous in the extreme, al-Theoretically, the religion of the though the execution of the work

> materials are thrown indiscriminately about. The cow and the bull are sacred animals and are allowed to roam at will in and out of the temple as well as among the shops in the most congested parts of the city. All the temples smell like cow stables, the "Cow Temples" at Benares being especially odoriferous, for here a specialty is made of worshipping the cow. We can sympathize to some extent with the people who worship the cow, but prefer to do so when she is confined in a sanitary American stable, instead of in a bad smelling Hindu temple which may be approached only by wading through filthy streets, stumbling over dirty and diseased beggars, and laying oneself open to the attacks of various and sundry microbes which find these surroundings congenial.

Every Hindu temple has its "tank" in which the people may perform their

would make a person lose his stand- the end of a stick and was caught in religion of the vast majority of the religious ablutions. These tanks are ing in his own caste. Violations of the act by one of his fellow bearers people consists in a wild desire to large rectangular basins enclosed by certain laws of caste may result in a who reported that he was doing a propitiate the myriads of demons who a wall and sometimes are several hunman being "outcasted" when he then sweeper's work, with the result that stand ready to do them evil at the dred feet in width and length. They the servant in question barely escaped slightest provocation or, indeed, with are commonly, though not always, no provacation whatever. There are surrounded by the buildings of the Soon after arriving in India I was are demons everywhere, in wood, and temple. The Hindu is required to take member of another one. A shoemak- walking down the street of one of the plain, and river; big demons and lit- a ceremonial bath every day, this bath er's son must be a shoemaker; a native cities when my curiosity was tle demons, and their chief delight is apparently being indulged in for ritufarmer's son must perforce be a farmer. aroused by a man who was peddling to make life miserable for the "poor alistic purposes rather than with any and the son of a Brahman is a Brah- a variety of queer looking cakes and benighted Hindu." If he is a farmer idea of becoming clean in the sense man willy-nilly. He can do some confectionery. The guide told me not the demons destroy his crops, make in which we use the word. The bath dreadful act (like eating with a Chris- to go too close, and explained after- his cows go dry, drive his buffaloes must be conducted according to rule, tian) which will send him pell-mell to ward that if I had touched one cake mad so they horn him, poison his beginning at a certain point on the join the ranks of the "depressed class- the whole tray would have been con- well, send plagues of mosquitoes, body and following a prescribed es" (as the learned Hindu is now taminated or rendered "unclean," and cause his mud house to fall down, course. To vary the order would be

may he can never rise above the con- Hindu. Indeed, some are so strict only ingenious demons can think of, The body is washed, the nostrils dition into which he was born, no that if even the shadow of an outcast to annoy mankind. The priests are and mouth rinsed out, and the



Pilgrims Bathing in the Ganges.

matter what his ability nor how de- (and all Christians are outcasts, of only a little less feared than the dem- teeth vigorously scrubbed either with







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the Nim tree, the end of which has tees, however, bathe in this water, do not necessarily tally, and the man been chewed into a sort of a brush. wash their clothes in it, and drink it, educated by the struggle for exist-The bath seems to be incomplete un- for it is especially efficacious in cur- ence is apt to be taught more than he water in which he has washed.

only dirty water which is covered washed away much sins."

the fingers or with a bit of stick from with a thick green scum. The devo- a trifle rare, because brains and birth

Winston of the Prairie

BY HAROLD BINDLOSS.

Synopsis of Previous Chapters.

Farmer Winston, having failed as a homesteader and driven to desperation, accepts a proposal to simulate Lance Courthorne, an adventurer; through the consummation of which Courthorne and his pals, after a struggle with the police, during which Trooper Shannon is killed by Courthorne, who leaves evidence pointing to Winston as the murderer, are able to smuggle through some illegal distillery products. The scene shifts to Silverdale, a settlement founded by Colonel Barrington, to which Maud Barrington, his niece and ward, has just returned after a visit to Montreal. Her questions elicit the information that the Colonel is worried over a fall in wheat prices, especially in the face of his advice to her to hold her share of that commodity; and also over the coming advent of Lance Courthorne, Miss Barrington's cousin, to Silverdale to claim his share of his father's estate. Maud Barrington learns more of her cousin's unsavory past from a frank conversation with her aunt.

CHAPTER VI.—(Concluded). "No, I am not tired, aunt, and I ly. "It is difficult to believe it, Maud." could not sleep just now," she said.

You see, after leaving all that behind fully. one, one feels, as it were, adrift, and perhaps you are right, for that was it is necessary to realize one's self again."

gleaming hair.

said. "You have lived out here with young while it lasted." two old people who belong to the past, too much."

The girl moved a little, and swept

The floor was of redwood, diligent- handkerchief to me?" ly polished and adorned, not covered, two basket chairs and a plain red- Maud Barrington and her aunt than sparkle in her eyes. stood in one corner bearing books in dainty bindings, and two great silver her knee with a little affectionate candlesticks. The shaded lamp was pride. also of the same metal, and the whole on the prairie, a suggestion of taste not like him? Tell me about him." and refinement held in check by at economy.

all—and it was so different from prairie."

There was comprehension, and a please you?" trace of sympathy, in Miss Barringdeal about it in your letters."

trifle thoughtless."

The white-haired lady laughed soft-

"I know what you mean, and what Toinette insinuated," she said. "She actually told me that I should be The little silver-haired lady who sat thankful I had a brain since I had no city, because sometimes when I count was finer still, and the torchlight me all about him." your birthdays I can't help a fancy meets of the snowshoe clubs on the

after?"

her glance slowly around the room, seemed to grow a trifle purposeless, had been able to trace it, not omitting, It was small and scantily furnished, and there was something that spoiled dainty in thought and speech as she though great curtains shrouded door it. Toinette was quite angry and I was, one or two incidents which a and window, and here and there a know her mother wrote you but it mother might have kept back from picture relieved the bareness of the was not my fault, aunt. How was I, her daughter's ears. Still, it was very walls, which were paneled with rough- a guileless girl from the prairie, to seldom that Miss Barrington made a ly-dressed British-Columbian cedar, guess that such a man would fling the blunder. There was a faint pinkness

The evenness of tone and entire abwood table; but in contrast to them a often exists between mother and the lustrous head that rested against that?"

conveyed, in a fashion not uncommon the Courthornes wear. Still, you could

Maud Barrington curled herself least comparative poverty. Colonel further. "I think I could have liked Barrington was a widower who had him, but that was all," she said. "He lady, "all quite true. Still, I must been esteemed a man of wealth, but was nice to look at and did all the confess that my brother and myself the founding of Silverdale had made little things gracefully; but he had a serious inroad on his finances. Ev- never done anything else, never would of the lawyer he sent to confer with en yet, though he occasionally prac- and, I fancy, never wanted to. Now Lance in Montana. One would almost ticed it, he did not take kindly to a man of that kind would very soon have imagined that he had of late pall on me, and I should have lost my been trying to make amends." "Yes," said the girl, "I enjoyed it temper trying to waken him to his the responsibilities."

"And what kind of man would ever live it down?"

ton's nod. "Tell me a little, my dear," but that fact that she answered at all she laid her hand on her companion's she said. "There was not a great was a proof of the sympathy between arm. "My dear, I have told you what Her niece glanced dreamily into the know that I am anxious any of them that you should know; but none of us sinking fire as though she would call should," she said. "But since you can tell what he may be, and if the up the pictures there. "But you know ask, he would have to be a man first, man is honestly trying to lead a difit all—the life I have only had glimp- a toiling, striving animal who could ferent life, all I ask is that you should ses of. Well, for the first few months hold his own amidst his fellows not wound him by any manifest sus-I almost lost my head, and was swung wherever he was placed. Secondly, picion. Those who have never been right off my feet by the whirl of it. one would naturally prefer a gentle- tempted can afford to be merciful." It was then I was, perhaps, just a man, though I do not like the word, and one would fancy the combination

til the bather swallows a little of the ing diseases and in warding off the ever would be at Oxford or in the attacks of demons. As one bath in army. Still, men of that stamp for-The tanks vary in holiness, the one this tank removes a multitude of sins, get a good deal, and learn so much at Madura being especially holy and it is not surprising that it is constant- that is undesirable, you see. In fact, bearing the euphonious title of "The ly crowded with bathers. A similar I only know one man who would have Golden Lily Tank." The lilies, golden tank at the Golden Temple at Amrit- suited me, and he is debarred by age or otherwise, are left to the imagina- sar, the guide informed us, was "very and affinity-but, because we are so tion, for in reality the tank contains good water to drink and wash in and much alike, I can't help fancying that you once knew another."

The smile on Miss Barrington's face, which was still almost beautiful as well as patient, became a trifle wistful.

"There are few better men than my brother, though he is not clever," she said, and dropped her voice a little. "As to the other, he died in Indiabeside his mountain gun-long ago."

"And you have never forgotten? He must have been worth it-I wonder if loyalty and chivalric faith belong only to the past," said the girl, reaching up a rounded arm and patting her aunt's thin hand. "And now we will be practical. I fancied the head of the settlement looked worried when he met me, and he is not very proficient at hiding his feelings."

Miss Barrington sighed. "I am afraid that is nothing very new, and with wheat steadily falling and our granaries full, he has cause for anxiety. Then the fact that Lance Court-The girl shook her head reproach- horne has divided your inheritance and is going to settle here has been troubling him."

"The first is the lesser evil," said the girl, with a little laugh. "I wore very short frocks when I last saw in the big basket chair smiled down heart. Still, at first I let myself go, Lance in England, and so far as I upon her, and laid a thin white hand and it was delightful—the opera, the can remember he had the face of an that was still beautiful, upon the dances and the covered skating-rink angel and the temper of a devil. But with the music and the black ice did not my uncle endeavor to buy him "I can understand, my dear, and am flashing beneath the lights. The whir off, and-for I know you have been glad you enjoyed your stay in the of the toboggans down the great slide finding out things-I want you to tell

"He would not take the money," that you are not young enough," she mountain. Yes, I think I was rea'ly said Miss Barrington, and sat in a thoughtful silence a space. Then, and "For a month," said the elder. "And perhaps she had a reason, she quietly recounted Courthorne's Canadian his-"Then," said the girl slowly, "it all tory so far as her brother's agents in her face when she concluded, but she was not surprised when, with a by one or two skins brought by some sence of embarrassment was signifi- slow, sinuous movement, the girl rose of Colonel Barrington's younger neigh- cant. It also pointed to the fact that to her feet. Her cheeks were slightly bors from the Rockies. There were there was a closer confidence between flushed, but there was a significant

"Oh," she said, in utter contempt. cabinet of old French workmanship daughter, and the elder lady stroked "How sickening! Are there men like

There was a little silence, emphasized by the snapping in the stove, "My dear, you know you are beau- and if Miss Barrington had spoken room, with its faint resinous smell tiful, and you have the cachet that all with an object she should have been contended. The girl was imperious in her anger, which was caused by something deeper than startled prudery.

"It is," said the little white-haired were a trifle astonished at the report

The girl's face was very scornful. ould. man with a past like that

"We have a warrant for believing Maud Barrington's eyes twinkled, it," said Miss Barrington quietly, as herself and the questioner. "I do not Lance was, because I felt it was right

Maud Barrington laughed somewhat

(Continued on page 308).



The Milk Maid Ready for an Outing.

WHAT IS IN A NAME?

BY JULIA RAMSEY DAVIS.

There are crimes, and crimes, but none more to be deplored, because of the helplessness of the victim, than those committed by unthinking parents in naming their innocent children.

Negroes are noted for giving their offspring high sounding names, and often they make ridiculous combinations. One dusky pair has recently christened a baby girl, "The Virgin Mary."

A girl coming into the Bank's family during an unusual snow in south Georgia, was promptly named Snow, which combination, Snow Bank, is not very appropriate for a child of ebony

One colored mother, not wishing to show partiality, gave her favorite name, Minnie Lee, to her four daugh-She says that this has proved a splendid arrangement, for when she wants a child she calls, "Minnie Lee!" and any of the four in hearing will hasten to her assistance.

Patriotism and state pride have caused many a child, both white and black, to struggle under a great name. The country is full of Washingtons, Lincolns, Grants, Lees, Jacksons, etc., most of whom are "hewers of wood and drawers of water."

But the African race is not alone in this offense against childhood. Everyone can recall instances where, seemingly intelligent parents have given their children unpardonable names.

An estimable young man of my acquaintance blushes to acknowledge the name of Green Lemon. Mr. Long Pole always requests his friends to call him by his initials.

We have all heard of Mr. Hog, who christened his two daughters Ima and Ura. No wonder the girls availed themselves of the first opportunity to change them.

We may learn a lesson from the following true story: Mr. and Mrs, Rose, who are prominent people in a southern town, had their only daughter christened Wild, because the whole, Wild Rose, appealed to them as being novel. They did not realize that unusual names are frequently a misfor-

Wild Rose blossomed into a most attractive young lady. She was a belle and had many suitors for her hand, but alas! that Cupid should be so blind. Charming Mr. Crane was the one who won her heart.

Poor Wild Rose vowed that she would never marry, for she would not, even for love, consent to go through life with the horrible name of Wild Crane.

For some time their case seemed hopeless, but "Love will find a way." Mr. Crane appealed to the legislature of his state, and was soon happy in bearing the cognomen of Mr. Flower. This name was entirely satisfactory, so in a short time Wild Rose became his Wild Flower for life.

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The factory output—to cope with demand is five times larger than one year ago. Think of that. The new-day model, in a single year has quintupled HUDSON popularity.

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Under those conditions men are flocking to HUDSONS. They are paying for HUDSONS \$3,875,000 in one month. They are buying HUDSONS five times faster than last year at this time.

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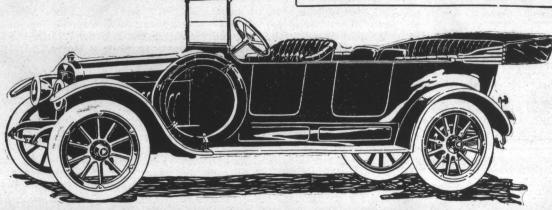
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In the Last Five Minutes of Play. By MANTHIE HOWE

news was passed from mouth to afternoon. mouth on the play ground at noon.

they wallop their old enemy, Ipswich! season has just begun you know." The talk drifted back and forth, and Come to signal practice! be one of the foot-ball eleven.

"Coming out tonight, Dan?" said big name! Bob Danforth, a husky senior.

haven't a chance with Loftis."

the try-out."

dug out his old eighth grade suit. But All they wanted was a chance. years before.

team," he thought, as he trotted down bench; his jaws grim and eyes burnto the practice field.

The coach gave Dan a keen look. "Get in with the big fellows," he the yell master.

ordered. And Dan thought that by some mir- with a right good will.

acle his dream was to be fulfilled. Manfully he trotted up and down the protest. At the end of the practice on the field. the coach laid a hand on his shoulder. Then a breathless silence settled

'you have the courage but you haven't for goals. the weight. Loftis is about ten pounds heavier than you, and I guess we'll queried the referee. have to give him the place at quarterback. You play quarter on the sec- the opposing captains. ond team and we'll take you on as sub."

It was not like making the team to Up and down and back and forth make a showing on the second team. together and make a touch-down.

All through the golden days of Octoter he trained manfully. No coffee, down!" screamed the loyal rooters. no candy, bed at nine o'clock and regular gym work every day. Without a minutes to play." word of protest he went through the grind and reported for the daily prac- begged and implored. tice. With a grin on his thin dark face he stood up and let the big team ting dry and hoarse from yelling. He drub him unmercifully in the scrim- seized a megaphone and running out mages. And day by day he gained a to the ropes called: "Come on Bob, little flesh and better control of his shove them across for a touch-down." wind.

Then the great day drew near.

Bob Danforth met him on the way the line. to school Monday morning and told him the news as they walked together.

"It's come, Dan," he cried enthusiastically. "We're to get a chance at Ipswich next Saturday."

"Honest Injun," replied Dan excit- whistle blew. edly. "I'd give anything to be in that game."

ed very much and-well, I guess he and you let it get by." isn't as interested as he might be."

Dan knew what the big half-back for McEevers." meant. The team was afraid that A great li Loftis was "yellow." The worst thing forth's eyes. that can be thought of a foot-ball player.

Monday's and Tuesday's practices into place. dragged by and each day found it harder for Dan to keep on with the appointed high school students. "Get were curiously thoughtful, into the hard inglorious grind of practice on into the game you fellows."

RY out for the foot-ball team this encouragement came when the coach afternoon at four-thirty." The stopped him after practice Wednesday

"Good work, McEevers," he said, Who would make the team? Who "had my eye on you this afternoon would get in at quarter? The Baxter and you are beginning to show up in High School had good material this fine form. Come down to signal pracyear-everybody said so. Wouldn't tice of the first team tomorrow. The

McEevers, sophomore, listened he? Well-would he? Dan grinned eagerly. If there was one thing in all to himself as he whistled and rubbed the world that Dan wanted it was to his lame thighs. Didn't he know every signal as well as he knew his own

Friday night he went to bed half an "What's the use," muttered Dan dis- hour earlier, and it was a lucky thing consolately. "You know I'm about fif- he did, for it took him half an hour teen pounds too light. The quarter is before he could get his mind off the the only position I could play and I big game and go to sleep. Oh, for a chance to play against Ipswich!

"That's all right, old man," encour- Saturday dawned crisp and bright, aged Bob. "You never can tell what an ideal foot-ball day. All morning will turn up. You better come out for enthusiastic high school students went down the main streets, selling tickets "I'll think about it," promised Dan. and assuring the citizens of Baxter And he did. With the result that he that their team could beat Ipswich.

he had half a mind to throw it back At two-thirty every seat in the in the trunk when he found he hadn't grandstand was taken and the crowds put on more than seven pounds at the swarmed down along the ropes of the most since he had worn the suit two foot-ball field. A wild hurrah went up as the Baxter boys began to pull off "A fine chance I have to make the their sweaters. Dan sat on the sub ing excitedly.

"Give the boys nine rahs," ordered

And rah! rah! rah! rent the air

"Now a yell for Ipswich."

"Rah! rah! Ipswich! Ipswich," came field, getting poked and jolted by his the sportsmanlike cheer of the Baxter heavier team mates without a word of rooters, as the rival team trotted out

"It's too bad, boy," he said kindly, over the crowd as the captains tossed

"Baxter are you ready? Ipswich?"

"All ready," came the answer from

The whistle sounded and the big game was on.

go as sub, with probably never a they surged, but gradually the Baxter chance to play all season, but it was boys were advancing towards their better than nothing, and Dan swallow- goal. Dan paced up and down the ed his pride and disappointment and side lines with the coach, praying, made up his mind to pitch in and muttering, begging the boys to pull

"Touch-down! We want a touch- happy.

"Come on boys! Only five more

"Give us a touch-down!" the crowd

Dan found that his throat was get-

His ears caught the signal 76-42-3-7. They were going to put Loftis through

The big center snapped the ball clean and straight and-Loftis fumgrabbed it and was off down the field. Big Bob Danforth tackled him and the sweeping lines of a figure so delibrought him to earth just as the

over. The score stood 0 to 0.

to play up very well. He hasn't train- had the touch-down within your grasp erect in a pose which, while assumed

"Loftis get out of the game. Send that was almost imperial.

off the old red sweater and trotted dear."

ed. Ipswich opened the second half with a fine clean kick that won applause from the rival rooters. Again Bob Danforth tackled the Ipswich player and prevented a score. Yard by yard they forced the rival team down the field. Now one, now the other goal was in danger, but surely, persistently, doggedly Dan McEevers played the game with every ounce of courage in his hardened wiry young body.

Five minutes to play—came the warning cry that told him they had just three hundred seconds in which to make good their boast that they would defeat Ipswich if they just had a chance.

Half way down the field Bob Danforth touched Dan on the shoulder. The plucky little quarter-back knew what was coming, and his mind jumped to help his body get around that stone wall of the Ipswich line.

76-56-86-7. Biff, the ball struck Dan's waiting hands; a smooth pass to Bob, a lightning change back to Dan, and he was around Ipswich's end and down the field.

"Good old Dan, good boy. Go it! go-o-oo it Dan!"

Before him, it seemed a mile away, rose the slender sticks of the goal posts. His heart beat fast and his breath whistled through his nostrils. Behind him as he stole a quick glance over his shoulder, he saw a lanky Ipswich in blue striding after him. He could hear the runner's labored breathing. But now his weeks of patient and dogged training were coming into play. Calling upon his will he made one final gallant effort. The Ipswich man was at his heels butthe goal posts were in hands' reach. A final wild plunge and he was across the line. And the crowd was going

"A touch-down! a touch-down!"

The ball was carried back and a goal kick was made in safety but nobody knew or cared very much.

"Nine rahs for McEevers!" yelled a dozen amateur yell masters.

"Rah! rah! rah!" came the cheer with a gusto that could not be mistaken.

"Up with McEevers and Danforth." came the command.

And before they could protest, Bob and Dan, sweaty, dirty and weary, were lifted to the shoulders of the delighted mob and borne back to town. And even now, eight years afterwards, the boys of Baxter tell about McEevers' touch-down. And Dan was

WINSTON OF THE PRAIRIE.

(Continued from page 306). curiously. "You are a very wise woman, aunt, but you are a little transparent now and then," she said. "At least he shall have a fair trial without prejudice or favor-and if he fails, as fail he will, we shall find the means of punishing him."

"We?" said the elder lady maliciously.

The girl nodded as she moved towards the doorway, and then turned a bled! Ipswich's wiry little right end moment with the folds of the big red curtain flung behind her. It forced up cately molded that its slenderness was scarcely apparent, for Maud Barring-And the end of the first half was ton still wore a long somber dress that had assisted in her triumphs in "Wish you could Dan," said Danforth. "I surely wish you could, for ed the players with his reproaches. lor of her skin and the brightness of I'm mighty afraid Loftis isn't going "It was inexcusable," he said. "You her eyes, as she held herself very in mockery, had yet in it something

"Yes," she said. "We. You know A great light leaped to Bob Dan- who is the power behind the throne at Silverdale, and what the boys call me. With trembling fingers Dan stripped And now, good-night. Sleep well,

She went out, and Miss Barrington "Get into the game," yelled the dis- sat very still, gazing with eyes that fire. "Princess of the Prairie-and it the second team. The one word of Again the referee's whistle sound- fits her well," she said, and then sigh-

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ed a little. "And if there is a trace of hardness in the girl it may be fortunate. We all have our troubles—and wheat is going down."

In the meanwhile, late as it was, Colonel Barrington and his chief lieutenant, Gordon Dane, sat in his logwalled smoking-room talking with a man he sold his wheat through in Winnipeg. The room was big and bare. There were a few fine heads of antelope upon the walls, and beneath them an armory of English-made shotguns and rifles, while a row of silvermounted riding crops, and some handled with ivory, stood in a corner. All these represented amusement, while two or three treatises on veterinary surgery and agriculture, lying amidst English stud-books and racing records, presumably stood for industry. The comparison was significant and Graham, the Winnipeg broker, noticed it as he listened patiently to the views of Colonel Barrington, who nevertheless worked hard enough in his own fashion. Unfortunately it was rather the fashion of the English gentlemen than that common on the prairie.

"And now," he said with a trace of anxiety he had concealed in his eyes, "I am open to hear what you can do for me."

Graham smiled a little. "It isn't very much, colonel. I'll take all your wheat off you at three cents down."

Now Barrington did not like the broker's smile. It savored too much of equality, and, though he had already unbent as far as he was capable of doing, he had no great esteem for men of business. Nor did it please him to be addressed as "Colonel."

"That," he said coldly, "is out of the question. I would not sell at the last market price. Besides, you have hitherto acted as my broker."

Graham nodded. "The market price will be less than what I offered you in a week, and I could scarcely sell your wheat at it today. I was going to hold it myself, because I can occasionally get a little more from one or two millers who like that special grade. Usual sorts I am selling for a fall. Quite sure the deal wouldn't suit?"

Barrington lighted a fresh cigar, although Graham noticed that he had smoked very little of the one he flung away. This was, of course, a trifle, but it is the trifles that count in the aggregate upon the prairie, as they not infrequently do elsewhere.

"I fancy I told you so," he said.

The broker glanced at Dane, who was a big, bronzed man, and, since Barrington could not see him, shook his head deprecatingly.

"You can consider that decided, Graham," he said. "Still, can you, as a friendly deed give us any notion of what to do? As you know, farming, especially at Silverdale, costs money, and the banks are demanding an iniquitous interest just now, while we are carrying over a good deal of wheat."

Graham nodded. He understood why farming was unusually expensive at Silverdale, and was, in recollection of past favors, inclined to be disinterestedly friendly.

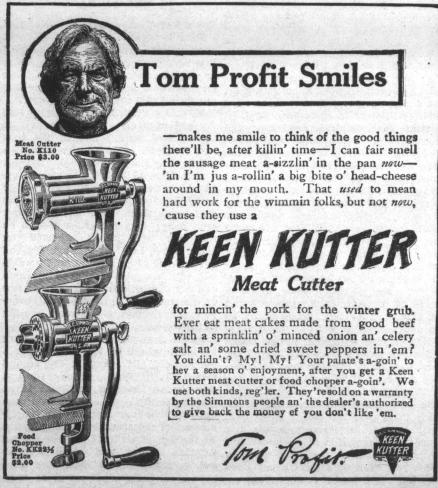
"If I were you, I would sell right along for forward delivery at a few cents under the market."

"It is a trifle difficult to see how that would help us," said Barrington, with a little gesture of irritation, for it almost seemed that the broker was deriding him.

"No," said the man from Winnipeg, "on the contrary, it's quite easy." Now I can predict that wheat will touch lower prices still before you have to make a delivery, and it isn't very difficult to figure out the profit on selling a thing for a dollar and then buying it, when you have to produce it, at 90 cents. Of course, there is a risk of the market going against you, but you could buy at the first rise, and you've your stock to dole out in case anybody cornered you."

(Continued next week).





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thoughts of waiting dishes drew them does she know that those things are three years the younger. trimmings, to be indulged in only at Every outward duty to the small rare intervals, while the human ani- ally the case. A farmer is nearly alones was fulfilled. But just what per- mal's daily rations should consist of ways very careful not to put a colt centage of us, the million or more milk, meat, eggs, good bread and but- at too hard work, and certainly a mothers in the United States, stopped ter, vegetables and fruits in properly young, growing girl is as worthy of to think if our schools were giving balanced quantities? Food to be chew- care, so she may be a strong, healthy our boys and girls the right sort of ed thoroughly and not washed down woman. preparation for life? Most of us ac- with coffee, tea or water? Does she cept the curriculum as the school know that cooking is an exact science, board hands it out to us, sometimes and that if she follows clearly defined well. My husband has helped many a wondering dazedly why they crowd in rules she can be as sure of success in time. I also believe in folding and

of us think it might be improved, but the sacredness of motherhood? Or is dish aprons as soon as perfectly dry. who of us has thought seriously that she hearing of it as a disagreeable Once during a four weeks' siege of our school courses really do next to duty to be shunned if possible? Is strawberries we only had one cake in nothing to prepare the children for she being taught that life consists not the house. But we had strawberries in the abundance of possessions, but and cream for breakfast and short-When all has been said, what did in friendship and service? Is she be- cake for dinner and supper. As we you get in school beyond the ability ing given intelligent instruction about had never had a plenty of strawberto read, write and "figure," that really the sort of love on which homes are ries before it seemed wicked to let has helped much? You studied some built, or is love to her the hysteria them spoil, and I couldn't bake cake

your knowledge you may have been These are the things your daughter The only other time I ever differed benefited by it. But with the power should know when she steps out of with Deborah was in her article on These are the things your daughter to read you could have learned out- school with her diploma, for they are wash women. I did so want to tell side of school all that you learned in, the only things she will need. The her that if the wash women were paid about your body and its care. Who smattering of drawing and music and more perhaps they would take pride of you could bound all the states, or French and German and higher math- in clean clothes. It was my experidiagram a sentence or name all the ematics will have no place in her life ence in doing washing that one only battles in the French and Indian war? after she leaves the schoolroom. got about enough to pay for the wood And if you could, how would it help Doesn't it seem foolish to waste so used, not saying anything about labor. you any except in the sense of per- many precious hours over them and Hoping I'll not find the waste basket, sonal satisfaction? Yet you could do leave untouched so much that is real. I am, respectfully, Mrs. F. L. DEBORAH.

LETTER BOX.

ed and went about the serious busi- Don't Let Twelve-year-old Girls Sew. ness of learning how to farm or run Dear Deborah:—Like Mrs. F. L. S., proverb, which proves the delectabilan engine or keep house. The things your articles generally "hit the spot." ity of this dainty. It is indeed a fine you really needed to know in order But when you talk of teaching a ten- winter delicacy. When they are careto make your living were put off until or twelve-year-old girl to do all her fully cooked no fruit can surpass them

they teach sewing and cooking, each and she took almost entire care of a partly done and then baked. To bake little more than you have taught her was lower than the other, as I have around them. Cover them closely and at home, if you have been a careful seen done. But she either played on let them cook slowly for about an mother. How much carpentry can the floor with him or wheeled him hour. your boy learn in that one hour a about in his cab. At that age she and girl of twenty.

In the first place, to do the sewing whipped cream on the top of each. children's success in life, in work, in machine all day, and would be tired pour it over them, and serve cold.

time with my right side. I was generally obliged to spend two days every month in bed. And I have always had CHOOL bells began ringing a few water and pure air mean more to her to doctor since being a married womweeks ago, and mothers the than money and ease? Does she know an. As a child I grew fast and apcountry over, some with a tear that happiness depends upon health, peared strong, and the remark was at seeing the baby start off alone for and health upon food rather than med. often made, "She's large and strong, she can stand it." But they would Your son, if he is an up-to-date farm say of my cousin, who was small for children to school. There was much lad, knows that good stock can be her age, "We must be careful of her." brushing of hair and scrubbing of produced only by scientific feeding. My cousin did not sew on the mahands and filling of dinner pails, and Does your daughter know that the chine until she was sixteen, never did exhortings "to be good and mind the same rule applies to sturdy children? any washing to speak of, until that And fond mothers gazed Probably she can make fudge and sea age, and she is a much stronger and proudly after retreating forms until foam and Lady Baltimore cake. But healthier woman than I, and I am

From my observations this is gener-

I believe in letting "father help" when a woman or the baby is not so many more subjects than they did that art as in extracting square root? Putting away all dish towels, wash Is she being taught anything about rags, knit underclothes, napkins and and care for the strawberries, also.

The only other time I ever differed

QUINCE RECIPES.

BY DR. L. K. HIRSHBERG.

"Eat quinces and die" is a Swedish you had jammed your mind with a lot own sewing. I felt that I must drop in delicacy of flavor. Baked quinces can be prepared in two ways. They Now, don't think for a minute that can be slowly baked until they are And your children are doing the my girl of twelve was not a help to tender, in a covered dish in the oven. same thing. Perhaps in your school me. I had poor health at the time or they can be boiled until they are one hour a week, and the boys have big healthy baby a year old. But she them in the first way, wash and core manual training for a similar time. wasn't allowed to lift him around un- them, and fill the core cavities with How much sewing can your daughter til she was round shouldered, or to granulated sugar. Arrange them in a learn in one hour out of 168? Very carry him on one hip until one hip buttered baking dish and pour water

When they are almost done remove week? How much does either one of her brother often did the family wash- the cover and cook a little more rapthem learn of the business of earning ing with the aid of a good machine idly. Then remove the quinces and a living and making a home, which in and my overlooking. She did not sew reduce the syrup in which they were spite of theories, is the supreme end on the machine until she was seven- cooked, by boiling it rapidly for a few of existence for the human family up teen, and today is a strong healthy moments, pour it over them and chill Serve with a tablespoonful of

does she have any conception of her by hand would be too tedious for a To cook them in the second way. real mission in life, the mission of be- ten-year-old girl. And in the second peel them and parboil. Put them in ing a home-maker, entrusted with the place, I don't think a girl ought to run a baking dish and pour the water in health of husband and children? Does the sewing machine until she is at which they were cooked, made into she have even a glimmering of an least sixteen. I will cite my own case syrup with the addition of sugar, idea that, upon her ability as a cook, but can look around among my school- around them. Bake them, covered will depend, in, large measure, her mates and see a number of duplicates. for an hour, or until they are tender. husband's success in his business, her At the age of eleven I ran the sewing remove them, reduce the syrup and

play, yes, even their very lives? Does out at night. From that time on I An easily made quince pudding is she know the health is dependent up- sewed on the machine, and at four- this, and it is the sort of pudding to on same rules of living, that plain, teen made my own clothing. serve on one of the first chill autumn

quinces, and boil them until they are soft. Then peel, core and mash them tell and add the yolk of four eggs, beaten with a pint of cream. Sweeten to taste and season with ground ginger and cinnamon. Bake in a moderate oven for three-quarters of an hour and serve with cold custard sauce.

There are several ways of making quince tarts. One way is to combine the quinces with apples in this man-Peel and core two pounds of well-flavored apples and cut them in thin slices. Arrange them neatly in a deep pie dish. Add a pound of quinces that have been sliced thin and stewed over the fire in a very little water, some sugar, and a bit of butter. Add a generous quarter of a cupful of sugar to the fruit, a little grated lemon rind, and the water in which the quinces were stewed. Cover it with a sheet of rich paste, brush it with egg white and bake for 40 minutes. Sift powdered sugar over the top and return to the oven to brown.

Another quince tart recipe calls for stewed quinces, placed in a cooked tart shell and eaten cold with whipped cream, slightly sweetened over it.

A third tart is made in this way: Peel and core half a dozen mediumsized quinces and cook them until they are soft, in water enough to cover them. Drain them and put them through a sieve. Add a cupful of sugar and the yolks of four eggs well beaten, with two cupfuls of milk. Line a deep pie dish with crust and fill it with the quince mixture. Bake it for three-quarters of an hour in a moderate oven and cover it with meringue. Brown it and serve cold.

Quince omelet is made with jelly. Make an omelet of eight eggs, beaten with a tablespoonful of sugar, a wine glassful of wine, and three tablespoonfuls of milk. Cook it until it is set, and then spread it with quince

jelly and fold it.

To make quince puff, peel, core and slice half a dozen apples and a quince. Add half a cupful of water. Cover them and cook them slowly for half an hour, then rub them through a sieve. Cook this pulp with three eggs, beaten with half a cupful of sugar. Cool it and fold in the beaten whites of the three eggs. Chill, and serve it.

To make quince jelly, wash, core, quarter, and chop the quinces and cover them with water. Then simmer them until they are soft. Put them in a jelly bag and let them drip. Measure the juice and allow an equal quantity of granulated sugar. Put the sugar in the oven to warm and boil the juice for 20 minutes. Add the sugar and bring to the boiling point, then pour into scalded jelly tumblers.

To make quince chips, pare, quarter, core, and slice the quinces. Weigh them and allow a pound of sugar for every pound of fruit. Cover the fruit with water in a porcelain kettle and boil for ten minutes. Drain it and put it in a porcelain kettle with the sugar. Add half a cupful of water. and cook it till the fruit is red and ing white kid gloves?—G. V. transparent. Lift the pieces of quince sweetmeats.

HOME QUERIES.

Household Editor:-Would you let child of four reen and green corn?—Anxious Mother.

By no means. Children of this age should be confined to milk, eggs, well easily digested.

sharp side toward the plate.

Household Editor:—Will you please tell me how good fermented wine is made from tame grapes?—H. J.

The following recipe is from "Prac-cal Cooking and Serving:" "Wash tical Cooking and Serving:" and stem the grapes and squeeze through a coarse cloth. Allow one quart of soft water to each three quarts of juice, and three pounds of brown sugar to four quarts of juice. Let stand six weeks in an open vessel covered with a light cloth to exclude dust, and then bottle."

Household Editor:—I have seen some of the recipes for pickling cucumbers, for home use I suppose. I would like to know how to preserve them in a commercial way, especially dill pickles.—Reader.

The following recipe for making dill pickles for commercial use is from "A Complete Course in Canning," made up of articles previously published in "The Trade." As it contains alum, I would suggest that you write the Department of Agriculture for its bulletin on commercial canning. Most of the bulletins are free, though occasionally one costs five or ten cents.

"Have well-coopered barrels; take out head and in the bottom place a handful of dill with a clever springling of mixed spices; fill barrel with cucumbers, finishing the top with dill and spices. Head up the barrel and fill through the bung with 50-degree brine to each 45 gallons of which has been added two pounds of alum and two gallons of 45-grain vinegar. Bung up barrel; bore a hole through the bung in which place a nipple connected with a half-inch rubber tube, the end of this dropping in a bottle filled with water."

I would like to have Mrs. G. S. try my way of making watermelon preserves. I have made them this way ever since I was a girl of 15, and my grandmother taught me. Pare the rinds and cut in inch cubes. For every eight pounds of rind add four pounds of granulated sugar. Stir until the cubes are covered with sugar and stand away over night in a crock. In the morning the cubes will look all clear and be swimming in water. Put on the back of the stove, slice in two lemons, add two pounds of raisins, and cook slowly until thick. They will keep in a crock.-Mrs. F. L.

Household Editor:-I see in your paper the request of Mrs. T. F. R. for recipe to make apple catsup. Following is one which I have tried and think quite good: Peel and quarter a dozen sound tart apples, stew them until soft in as little water as possible, then work through a sieve. To a quart of the sifted apples add a teacup of sugar, one teaspoonful of pepper, one of cloves, one of mustard, two of cinnamon and two mediumsized onions, chopped very fine. Stir all together, adding a tablespoonful of salt and a pint of vinegar. Boil one hour, or until about the same as tomato catsup. Bottle while hot, sealing very tight.-Mrs. F. H.

Household Editor:-Will

They are best cleaned by putting out of the liquid carefully with a on the hands and washing thoroughly skimmer and dry them on a sieve. in gasolene, rubbing the spots with a Roll them in sugar and use them as clean cloth dipped in the gasolene, or a clean soft brush.

Household Editor: - Will you please print the origin of hay fever, and what is the cure, if any?—Subscriber.

Hay fever is caused by the presucumbers ence in the air of the pollen of certain grasses. It is more common among women than among men, especially of highly nervous individuals, and in a done beef, mutton and chicken, and large percentage of cases is heredisuch vegetables as spinach, green tary. Certain drugs give some relief, peas, a little lettuce, beans and others but the effect of these wears off in Household Editor:—How should knives and forks be placed when setting the table?—Waitress. time and necessitates farger and doses. Many of the medicines advised for its cure contain cocaine and a The knives and spoons should be at habit for this drug is formed. Many the right of the plate and the forks at people are helped by going to a coolthe left. The one to be last used er climate when the attack comes on should be nearest the plate. Knives each year, but as they become used should always be placed with the to that change they find it necessary to go further north.



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A

the only spout that positively frees the casing of all air. Broad lips on Tin Cylinder (strainer) for easy handling of hot cracklings. No hot iron cylinder to handle

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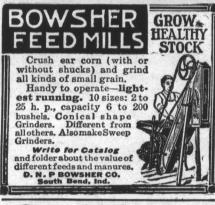




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5

Selling What You Raise.

by the farmer if he hopes to dispose of this fact. of his products at the highest prices.

This does not hold good in the case of staple articles, like potatoes, ex- market where one purposes selling his grown them at a loss. But undercepting the earlier varieties, but it goods. If he understands what will does hold good with garden products, be wanted at a certain time he will his knowledge of salesmanship to asberries and some sorts of fruits. One be able to supply the want. If he ig- sist him he can easily turn his goods woman refused to buy peaches be- nores this knowledge he will grope in into money and insure a profit worth cause the season for the best early the dark and fail to secure as much while as the result of his labors. ones had passed and the late ones return as he might. This is obvious were not yet up to the standard of upon reflection, but it is true that ripeness she required. Such little comparatively few in times past have could observe how selling should not things have a far-reaching effect upon reflected upon this phase of their be done, and having spent 15 years the business of any farmer who de- problem. A week spent in the mar- in the markets of one of the great citpends upon the sale of these products ket would not be too much. It is well ies of the country the writer knows for a portion of his income.

Make it a Rule to be on Time. Get your goods in at the proper where one may expect to sell goods, tion, after studying both sides of the time for your locality. If you are located near a city and go in yourself, study the peculiarities of your market and endeavor to meet those whims to satisfy prospective customers. It is the one way to help sell what you raise. Without a knowledge of this character the grower works to great disadvantage.

If you cherish the impression that consumers in cities will buy anything offered them in the shape of farm produce, get the idea out of your minds at once. They will not do it. The desirable trade is critical and after you have run the gamut of the different grades of buyers you will find at the end that the cheapest of them all is perhaps the worst to deal with. They are looking for cheap goods and they will not pay as much as your product is really worth because they know that you would not offer it to them if you could sell it anywhere else. The time has passed when the whims and fancies of buyers can be ignored. Second in Importance to Production.

It is well that agricultural colleges are introducing instruction in selling into their courses. They ought to emphasize it as second in importance to If, therefore, a farmer would obtain question that the average farmer is highest price.

A well-known firm that makes a certain article to be sold to householders the market. does not leave the solicitors who ability for service. partment through the mail or by dem- but they do not care for leeks. onstration as often as anything worth while is developed. The object of him how he can sell them the best?

farmers had was through the agricul- tially the same, however, and the farmers had was through the agricultural papers, and they have done yeoman's work in this direction. Some, of his sales will take pains to investing a market at \$8.60 per 100 lbs., the highest price ever paid in that market require very little instruction. Others are not salesmen and require much.

The writer's ewn father, one of the only salad plant that was bought free-

ONSUMERS of farm produce are most successful farmers in his comcreatures of impulse. Moreover, munity so far as the development of they are something like the his farm and the production of crops instances of this character, but detailsmall boy who plays at certain games was concerned, was woefully deficient at certain seasons. It is quite impos- in selling ability and had he not been merely to lay down the broad princisible to say why, but it is a fact, nev- fortunately situated much of his work ertheless, which must be recognized would have gone for nothing because

Know Your Market.

to know thoroughly the peculiarities something of this subject from both of each separate city and locality ends. It is his unhesitating declara-

ly. Now a dozen varieties sell and most markets cannot obtain too many of them. Salad plants do not bring high prices, but they do not cost much to raise, are easily picked and packed and are always salable. It is well to know whether or not your market favors them, and if it favors one variety over another. Then you can cater to its peculiar tastes and achieve a success in selling where otherwise you would fail.

One might, perhaps, cite many more ed information is not intended. It is ple that the farmer, to be successful, must sell his goods. That is the thing which will be paramount after the crop has been raised. Until he does The first essential is to know the sell them they are useless and he has standing his market and relying upon

Average Farmer a Poor Salesman. Being raised on a farm where he



To Hold a High-class Trade the Farmer Must, After Growing Products of Merit, Grade and Pack them in a Manner Approved by Customers.

farm operations. The first step, of the highest price for his products he still deficient in his salesmanship and course, is to grow the best possible must, so far as possible, know his that he must do much more investiproduct for sale, but like unto it is the markets. If he would offer in any gation and studying in this direction second, to learn to sell them for the particular market those articles, or before he can hope to accomplish the products, which he hopes to dispose purpose in raising produce, to sell it of at a profitable figure he must know for a reasonably high price.

A Place for Every Product.

Certain market in the best way? Who shows and Hollanders, though they do not ing the future far more hopeful. always use it in the same way. The Until recently the only instruction conditions which govern are substan-

It may be unfair to place all farm-For example, here is a city with a ers in the same class, but it must be are to sell them in ignorance of the large Italian population and there on- confessed that after seeing hundreds best methods of handling customers ions, leeks, and similar vegetables of thousands of packages come into and disposing of goods, they maintain are always good sellers. Italians con- market from every part of the counexpensive schools where these sales sume a great many such vegetables try in a very unmarketable condition, men are taught free of cost the scien- and will always take them. If they one cannot say much else. During tific methods of selling. Nothing is come very early in the spring so much the past two or three years, since left undone which will increase their the better. They will bring a higher farmers have been shipping through Then after they price. On the other hand, it would be co-opertive associations this condiare done with the school they are per- quite useless to undertake to sell tion has begun to change, but the imsistently followed up with written or them extensively in localities where provement is slow and it will require printed instructions and are given the Americans predominated. They might many years more of educative work latest development of the selling de- take onions in considerable quantities before the desired result will be accomplished. But farmers' organizations of various kinds are doing good vegetables, like potatoes, work for which they deserve to be this is obvious. But who does this for etc., will be bought freely by every-commended. Farmers themselves are the farmer? Who teaches him the one. But where the Irish dwell in coming to appreciate more and more necessity for understanding the prin- largest numbers is the best place for the great importance of the selling ciples of salesmanship? Who tells cabbage, and the same observation end and they are undertaking changes him how to prepare his products for holds good with reference to Germans of their own volition which are mak-

New York. BURTON ALLBEE.

Crop and Market Notes.

Michigan.

Kalkaska Co., Sept. 25.—Weather conditions have been variable, and frost damaged late potatoes and corn in some localities. Silo filling has been in progress, many new silos having been erected this season. Fifty per cent more wheat than usual has been sown; there is considerable rye yet to be sown. The bean crop is poor, having been affected by too much moisture. Stock has been bought up closely at profitable prices. Wheat is around \$1; potatoes 50@60c; oats 50c; butter-fat 30c; eggs 20c; chickens 12c.

Isabella Co., Sept. 26.—Beans are mostly harvested, and a good crop. But little fall wheat is being sown. Oat and wheat harvesting is nearly done; oats were 50 per cent of a crop; wheat turned out poorly, but of good quality. Potatoes are a good crop and corn is fine. Butter 25c; cream 20c; eggs 21c; oats 40c.

Shiawassee Co., Sept. 29.—Beans and clover seed are being harvested, the latter is well filled. Corn cut and large acreage of wheat sown. Some are starting to harvest beets. Beans are yielding eight to 12 bushels per acre, and pick three to five pounds. Cattle are scarce. Apples are a good crop. Wheat 97c; oats 44c; beans \$2; butter 25c; eggs 24c.

New Jersey.

Monmouth Co., Sept. 21.—Weather is very dry and pastures are about gone. Corn, potatoes, onions and apples are good. Corn cutting is well under way. About the usual acreage of wheat and rye will be sown. Hogs are about the only live stock ready for market, and they are few and high in price, some being offered at \$15 per cwt. for October delivery. Rye 60@90c; wheat 90c@\$1.10; apples \$2@00c; apple

Morris Co., Sept. 18.—The weather is hot and dry, and there has been no rain for a long time. Some farmers have stopped plowing for winter wheat and rye on account of drouth. Corn is good; potatoes are good, but only enough raised for home use. Apples are a fair grow, peaches were

only enough raised for home use. Apples are a fair crop; peaches were abundant, and demand was good. Wheat \$1.10; rye 90c; buckwheat 85c; eggs 34c; butter 36c.

Pennsylvania.

Crawford Co., Sept. 26.—Corn is being cut and is a good crop. Quite a large acreage of wheat is being sown. Potatoes 80c; winter apples 50c per bushel; wheat 95c; butter 30c; eggs 26c per dozen.

Lancaster Co., Sept. 24.—The corn crop is not normal. Potatoes half a crop; a few onions. Many beans have dried before ripening. Clover seed is nearly a complete failure. Apples are a fair crop. More wheat is sown than usual. Live stock is scarce. Wheat \$1@1.10; eggs 26c; butter-fat 33c.

Ohio.

Sandusky Co. Sept. 25.—Weather is

a fair crop. More wheat is sown than usual. Live stock is scarce. Wheat \$1@1.10; eggs 26c; butter-fat 33c.

Ohio.

Sandusky Co., Sept. 25.—Weather is fine; corn about half cut. A large acreage of wheat sown; late potatoes promising; clover seed yielding well. Winter apples a light crop. Hog cholera raging. Loads are being sold freely. Wheat \$1.04; oats 46c; corn \$1.05 per cwt; hay \$12; butter 25c; eggs 25c; old hens 12@13c; young 14c; old ducks 7c; young 9@10c.

Harrison Co., Sept. 26.—The wheat acreage is large and growing nicely. Corn about one-half a crop. Potatoes are very poor, and clover seed yield will be small. Quite a few young cattle here, no sheep for sale, hogs are plentiful. Apples are plentiful and so are peaches, the latter selling at 25c per bushel; eggs 25c; butter 30c.

Highland Co., Sept. 27.—Corn one-half a crop; potatoes and onions are scarce. Clover seed yield is light. A fair crop of apples in some orchards. Usual amount of wheat sown. Fat hogs are scarce, but fall pigs are very plentiful. Hogs 8½c; cattle 5@7c; old corn \$1; wheat \$1.05; hay \$15; butter 25c; eggs 23c.

Indiana.

Davies Co., Sept. 22.—Corn yield is about an average. Late potatoes, onions, beans and clover seed will be average crops. Apples and late fruits are yielding well. Large acreage of wheat and rye were sown. There is a shortage of hogs and cattle. Hogs 9c; cattle 9c; butter 30c; eggs 22c; chickens 14c; milch cows \$50@100; horses higher than in summer.

Elkhart Co., Sept. 18.—Late corn and potatoes look well. Silos are being filled. Much smut on corn. Prices are good. Butter 30c; eggs 26c; chickens 12c; hogs 8½c.

Wayne Co., Sept. 29.—Clover seed yielded well. Late potatoes will be fair. Apples scarce. Corn will be a good crop. Silos are filled. The usual amount of wheat was sown. Pastures furnishing good feed. Stock is doing well. Wheat \$1; corn 80c; oats 45c; hay \$15@17; hogs \$8.50; lambs 7c; cattle 8c.

Illinois.

Marion Co., Sept. 25.—Corn is poor; (Continued on page 314).

Marion Co., Sept. 25.—Corn is poor; (Continued on page 314).

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Reo the Fifth has for years almost constantly far out-sold our output. Thousands who wanted it were unable to get it. But we have built new factories—three this year. Now we have a capacity of 90 cars daily. From this time on we shall try to supply the men who want better-built cars.

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We limited our output to insure this perfection. At times, five men were waiting for every car we built.

35,000 Cars

We have now built with this

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The result is endurance, freedom from trouble, low upkeep. The car stays new. Year after year it renders perfect service.

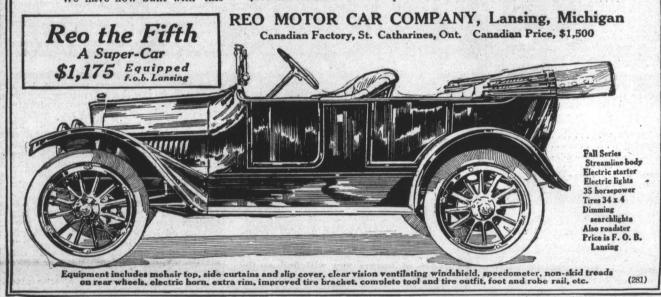
Men want these things in the cars they buy to keep.

Reo the Fifth is constantly kept up-to-date. It shows all the new ideas in body style, in finish and equipment. We have made 18 improvements this year.

And the price today is \$220 less than it used to be. This is due to larger output and to factory efficiency.

See the latest model. Go into the chassis with your dealer and see where this car excels. The more a man knows of motor cars the more he wants a car like this.

Sold by 1155 dealers. Ask for Reo Magazine, showing how this car is built, and we will tell you



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FARM FOR SALE—My 80 acre farm in Antrim Co. is for sale on easy terms, 67 acres cleared, good buildings, new slo, rural route and telephone, good soil, good locality, Price \$2500. BERT BISSON, Elmira, Mich

100 Acres \$5500

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3 Horses, 19 Cows, Crops, Tools.

Completely equipped money-making farm in world famous dairy district; big, sure, immediate income; fine surroundings, only 3 miles to town and R. R. station; outs 50 tons hay, spring-watered pasture for 28 cows, 30 acres timber, lots of fruit, 300 sugar maples; 2-story 12-room house, running water, big cellar, 40-ft basement barn, other buildings; owner left alone wants to get away; if taken now includes 3 horses, 19 cows, registered Jersey bull, wagons, machinery, tools, crops; only 2200 cash, balance easy terms; you won't have to spend another cent; steady income right large to the winter; photo of residence, all details, etc., page 3, Strout's Special Fall Bargain A GENOX, Station 101, Union Bank Bidg., Pittsburg, Pa

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Markets.

GRAINS AND SEEDS.

October 6, 1914.

Wheat.—Although quotations rule lower than the previous week, a firmer feeling prevailed Monday with a reaction in prices. Although the question as to the continued neutrality of Turkey and Italy in the present European trouble had a bullish influence the chief help came from Australia where a crop shortage is reported. A drouth will reduce the surplus wheat from the island continent several millions of bushels. Estimates also show a shortage of 365,000,000 bushels in this year's wheat crop for the northern hemisphere outside of North America, and Canada will have a crop of 73,000,000 bushels below a normal yield. From this it would seem that the statistical position of the wheat market is favorable to the present range of prices. One year ago No. 2 red wheat was selling at 94c per bu. Quotations are as follows:

New York.—The market is gaining stone. Not much change in prices. Creamery extras 30c; special mark to seed a firmer tone than tlast week.

New York.—The market is gaining stone. Not much change in prices. Creamery extras 30c; special mark to supply. Prices ½c lower. Fresh stock sells at 23c per dozen; current recipts 21½c.

Chicago.—Market steady for fresh and refrigerator stock. Prices slightly higher. Miscellaneous lots, cases included 19@22c; ordinary firsts 20@ 21c; firsts 21½@22½c.

Poultry.—Market easy, with plentiful supply. Springs 15c; hens 15c; ducks 13@14c; young ducks 15@16c; geese 11@12c; turkeys 16de; region prices. Quotations on live: Fowls 13@14c; spring chickens 13c; ducks, good stock 14e; guinea hens, per dozen \$3.50; young guinea hens, per dozen \$3.50; young

Red. White. Dec.

Red. White. Dec.

Wednesday ... 1.06 1.05 1.12
Thursday ... 1.04 1.03 1.11
Saturday ... 1.06 1.03 1.11
Chicago, (Oct. 6).—December wheat
\$1.083\forall ; May \$1.15\forall ;
Corn.—Further declines are noted in this market. Weather has been excellent for maturing the crop. This has overbalanced the influence of an excellent demand. One year ago No. 3 corn was quoted at 73c per bushel. Locally there is very little trading in the grain. Quotations are as follows:

No. 3 No. 3 No. 3 No. 3 Mixed. Yellow.

Wednesday ... 74\forall 2 76\forall 2 77\forall 2 76\forall 2 75

Wednesday ... 74\forall 2 76\forall 2 75

Maiden Blush \$1.75\top2.50;
Maiden Blush \$1.

Wednesday Thursday	Standard. W . 48½	hite. 48 47
Friday Saturday	. 471/2	47 47
Tuesday	$\begin{array}{c} 47\frac{1}{2} \\ 47 \\ December \end{array}$	46½ oats
Chicago, (Oct. 6		

rin.—No sales made but 29c was Market shows a firmer tone than

at 53c.

Apples.—Supply is liberal and demand is fair. Average receipts 35@ 50c per bu; \$1.25@2 per bbl.

Chicago.—Liberal supply of both bulk and barrel stock. Demand fairly active. Wealthy \$2@2.50; Kings \$2.25@2.75; Maiden Blush \$1.75@2.50; Wageners \$2@2.25; Jonathans \$3.50 \$4; Greenings \$2@2.25; bulk apples \$75@250 per car.

Wednesday
Thursday
Friday
Saturday
Tuesday
Chicago, (Oct. 6).—December corn
75%c; May 70%c per bushel.
Oats.—This cereal declined with
wheat and corn. Primary receipts
are in only moderate volume. At present it appears that the export demand
is a little slower than it has been;
however, the cereal is in as strong a
position as the other two grains. One
year ago 43½c per bushel was the
price for standard oats. Quotations
are as follows:

No. 3

Standard. White.

Standard. White.

48½
48

White.

White.

47½
47

Live STOCK MARKETS.

very moderate. Extra creamery 29c; was in bad shape, with increasing re-extra firsts 28@28½c; firsts 26@27c; ceipts at a time when only limited seconds 24@24½c; packing stock numbers were required. Even steers 20½c. selling as high as \$10@10.50 shared was in bad shape, with increasing receipts at a time when only limited numbers were required. Even steers selling as high as \$10@10.50 shared in the breaks, and the greater part of the offerings declined 25@35c, with a fall of 15@25c in females. A good share of the steers crossed the scales at \$8.50@10.50, but sales at high values were largely made on Monday, when quite a number of sales occurred at \$10.60@11, with top at \$11.05. Steers selling at \$10.50 and upward were prime, but numerous steers that passed for good sold at \$9.75 or thereabouts, while coarse heavy steers went around \$9. The poorer lightweight grassy steers brought \$6.35@7.75, and medium grade cattle sold at \$8.75@9.70, while yearlings brought \$9.50@11 when desirable, with sales all the way down to \$7.75@8 for ordinary lots. Chicago and other western markets have been getting large supplies of grass cattle, both natives and rangers, and until these runs are over depressed markets may be expected. Butchering cows and heifers have been selling at \$5@9.40 for ordinary to prime kinds, with cutters selling at \$4.50@4.95, canners at \$3.40@4.45 and bulls at \$4.50@8. Stockers and feeders have weakened, and the bulk sold irregularly lower, the tight money market preventing quite a number of intending buyers from purchasing. Stockers sold at \$5@7.75, feeders at \$6@8.40, stock and feeding cows and heifers at \$5@7 and stock steer calves at \$6.50@8.25. Calves were lower than a short time ago, with a slower trade, sales ranging at \$4.50@9 for the common to choice heavy weights and at \$10@11.25 for light vealers. Milkers and springers had a moderate sale at \$60@95 per head, the call being mostly for good cows.

Hogs have undergone extremely large declined in prices recently with ing mostly for good cows.

sale at \$60@95 per head, the call being mostly for good cows.

Hogs have undergone extremely large declines in prices recently, with late sales at the lowest values recorded since last July, despite moderate offerings most of the time and greatly lessened numbers slaughtered by western packing this season than a year ago. Furthermore, the accumulations of provisions stored in Chicago warehouses have been decreasing, the monthly official statement showing stocks held on October 1 to aggregate 77,484,302 lbs., comparing with 86,254,652 lbs. a month earlier and 88,825,291 lbs. a year ago. Current hog receipts are embracing a large percentage of heavy old sows, these going at bottom prices, and the range of quotations is extremely wide, with the small offerings of prime light barrows going highest of all. The latter are wanted by eastern shippers, who also buy moderate numbers of good hogs of heavier size, but the eastern shipping movement has been rather limited for some time past. In recent weeks the Chicago receipts of hogs have averaged from 239 to 247 lbs., whereas a year ago they averaged but 214 lbs. The average was 233 lbs. THE LIVE STOCK MARKETS.

Define continues for at at 174 by the price of the price o

weeks close lambs sold at \$6@7.80, feeder lambs at \$6.50@7.25, yearlings at \$5.50@6.25, wethers at \$5@5.75, ewes at \$3@4.85 and bucks at \$3.50@4. A few weeks ago prime lambs brought \$9.

CROP AND MARKET NOTES.

(Continued from page 313).

most of it has gone into silos. Potatoes, onions, beans, clover seed and apples were a failure here. A large acreage of wheat was sown. Not much live stock on the farms. Wheat \$1; other grains have to be shipped in. Hogs 8½c; cattle 5@6c; winter apples 75c per bushel; eggs 24c; butter 25c; cream 30c; peaches \$1. Consumers are paying \$1@1.20 for potatoes.

Wisconsin.

Waushara Co., Sept. 25.—Weather good; late potatoes are promising; clover seed will be a good crop; apples are scarce. Cheese market is dull. Eggs 20c; wheat \$1; rye 83c; butter 33c.

Polk Co., Sept. 29.—Small acreage of wheat and read seed.

Polk Co., Sept. 29.—Small acreage of wheat and rye sown. Silos are filled; corn is cut and an excellent crop. Clover seed not promising. But little fall plowing will be done. Cattle 4½ @7½c; hogs 8c; barley 50c; oats 40c; wheat \$1.10; potatoes 35c; butter 35c; eggs 25c.

Kansas.
Franklin Co., Sept. 21.—Silos are filled, and corn cutting finished. Corn of poor quality, and will yield about 10 bushels per acre. Potatoes half a crop. Onions and beans are fair. Clover seed is very short. Apples are scarce. Acreage of wheat sown will be large. Live stock is scarce. Wheat 94c; corn 80c; eggs 20c; cream 23c.

HELPING YOU GET STARTED.

To assist you in getting a direct market we will mail you a steel-crated shipping crate 8½x12½x14 ins., containing four dozen egg cartons, a 2-lb. butter tub, a pint cream bottle, partitions, parafined paper and shipping tags, all for 50c, or with the Michigan Farmer one year for 80c, to which prices add 8c for parcel postage in the first and second zones, 12c in third, and 19c in fourth zone from Detroit. We will also print your name in a list to be distributed among city consumers. Send orders to the Michigan Farmer, Detroit, giving the products you have for sale.



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Our exclusive process gives every sheet an extra heavy galvanized coating. Each sheet is made extra durable to give extra long

WE GUARANTEE every sheet to be first quality open hearth roofing steel, full weight, free from flaws and brand new—or it doesn't cost you a cent. Our Guarantee insures you of getting the highest possible quality of galvanized steel roofing. Could any Guarantee be fairer?

We manufacture all our roofing, and sell direct-to-the-consumer. We actually sell you high quality roofing for the same or less money than you have to pay your dealer for inferior quality. We save you big money in buying, and

We Pay the Freight

Send for Free Samples of galvanized steel, complete Roofing Book, and freight-paid prices.

The Ohio Galvanizing & Mfg. Co. Niles, Ohio 41 Ann St.,



MICHIGAN DAY Oct. 26th INDIANA DAY Oct. 27th OHIO DAY Oct. 28th

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Ten Days of more real value to the Dairy Farmer, Breeder, Creamery Man or any other man interested in Dairying, than any other days of the year.

FARM TELEPHONES



High Calcium Finely Pulverized Limestone



Do You Want a Farm?

THIS IS THE FIRST EDITION.

The first edition is sent to those who have not expressed a desire for the latest markets. The late market edition will be sent on request at any

DETROIT LIVE STOCK MARKETS.

Thursday's Market.
October 1, 1914. Cattle.

Cattle.

Receipts 1507. Market steady with Wednesday; canners strong, all other grades dull and 25c lower than last week; quality common.

Best heavy steers (quotable) \$8.50; best handy weight butcher steers \$7.25@8; mixed steers and heifers \$7.25% ight butchers \$6.50@6.75; best cows \$6.66.50; butcher cows \$5.25@5.75; common cows \$4.50@5; canners \$3.50@4.50; best heavy bulls \$6@6.50; bologna bulls \$5.50@5.75; stock bulls \$5.50%5.50; feeders \$6.50@7.25; stockers \$5.50@6.50; milkers and springers \$40@90.

@5.50; feeders \$6.50@7.25; stockers \$5.50@6.50; milkers and springers \$40@90.

Spicer & R. sold Mich. B. Co. 1 cowwgh 1200 at \$6.25, 1 do wgh 980 at \$5, 1 do wgh 980 at \$5, 1 do wgh 730 at \$6.50; to Parker, W. & Co. 1 do wgh 930 at \$4.50; to Breitenbeck 5 do av 932 at \$5.25; to Breitenbeck 5 do av 932 at \$5.25; to Breitenbeck 5 do av 932 at \$5.25; to Reardon 28 feeders av 825 at \$7; to Sullivan P. Co. 1 steer wgh 1180 at \$7.75, 5 cows av 1030 at \$5, 2 canners av 845 at \$4.50; to Hirschleman 1 bull wgh 610 at \$5.50, 1 do wgh 740 at \$6, 1 do wgh 1280 at \$6.75, 2 steers av 855 at \$7.25; to Findlay 18 stockers av 638 at \$6.25; to Parker, W. & Co. 2 cows av 810 at \$4; to Hammond, S. & Co. 3 bulls av 970 at \$5.75, 2 do av 1125 at \$6; to Newton B. Co. 29 butchers av 640 at \$6.75; to Rosier Bros. 38 stockers av 600 at \$6.25.

Roe Com. Co. sold Sutton 4 stockers av 617 at \$6.75; to Kamman B. Co. 5 butchers av 660 at \$6.25; to Newton B. Co. 3 do av 587 at \$5.25, 3 cows av 957 at \$5.25, 4 heifers av 645 at \$6, 3 cows av 940 at \$6, 7 butchers av 768 at \$6.50; to Sullivan P. Co. 3 do av 587 at \$5.25, 3 stockers av 690 at \$5.25, 8 cows av 955 at \$5.25; to Watts 11 stockers av 535 at \$6, 1 feeder wgh 780 at \$6.75, 3 stockers av 503 at \$6, 4 do av 600 at \$7.25; to Mich. B. Co. 3 cows av 966 at \$5.75, 2 steers av 1025 at \$7.75; to Parker, W. & Co. 4 cows av 892 at \$4.75, 5 do av 856 at \$4.50; to Sandall 1 steer wgh 500 at \$5.75, 2 do av 630 at \$6; to Hammond, S. & Co. 4 cows av 996 at \$5.25. Veal Calves.

Receipts 509. Market steady. Best

Veal Calves.

Veal Calves.

Receipts 509. Market steady. Best \$11@12; others \$7@9.50.

Spicer & R. sold Mich. B. Co. 1 wgh 150 at \$11, 22 av 160 at \$11; to Newton B. Co. 5 av 125 at \$10.50; to Mich. B. Co. 2 av 190 at \$11.50, 10 av 166 at \$11.25.

\$11.25.

Sheep and Lambs.

Receipts 5681. Market 15@20c lower than Wednesday. Best lambs \$7.35 @7.50; fair lambs \$7@7.25; light to common lambs \$6.50@7.75; fair to good sheep \$4.50@4.75; culls and common \$3.50@4.

Spicer & R. sold Mich. B. Co. 30 lambs av 52 at \$4, 62 do av 48 at \$6.50, 119 do av 67 at \$7.60, 22 sheep av 70 at \$5, 11 lambs av 85 at \$7.50.

Haley & M. sold Thompson Bros. 8 lambs av 50 at \$7, 51 do av 75 at \$7.75; to Newton B. Co. 126 do av 75 at \$7.75; to Newton B. Co. 126 do av 75 at \$7.75, 25 do av 83 at \$6, 12 do av 75 at \$7.75; to Newton B. Co. 31 sheep av 85 at \$3.50.

Hogs.

Hogs. Receipts 4257. Market very dull;

nothing doing up to noon; prospects \$8.40@8.50.
Bishop, B. & H. sold Parker, W. & Co. 1100 av 200 at \$8.60, 810 av 155 at \$8.50.

Roe Com. Co. sold Sullivan P. Co. 225 av 190 at \$8.60.

Friday's Market. October 2, 1914. Cattle.

Sweetens sour soil. Without Limestone you cannot grow Alfalfa. Necessary for Clover, also other crops. Quick shipments in closed cars. Quality guaranteed. We will be pleased to send price and sample.

NORTHERN LIME COMPANY
Petoskey, :-: Michigan

Cattle.

Receipts this week 1657; last week 1956; market steady.

We quote: Best heavy steers (quotable) \$8.50; best handy weight butcher steers \$7.75@8.65; mixed steers and heifers \$6.50@7.25; best cows \$6.25@6.50; butcher cows \$5.25@6; common cows \$4.50@5; canners \$3@4.25; best heavy steers and heifers \$6.75@7.25; best cows \$6.25@6.50; butcher cows \$5.50@6; common cows \$4.50@5; canners \$3@4.25; best heavy steers and heifers \$6.75@7.25; best cows \$6.25@6.50; butcher cows \$5.50@6; common cows \$4.50@5; canners \$3@4.25; best heavy steers (quotable) \$6.50@5; canners \$6.50@7.25; best cows \$6.25@6.50; butcher cows \$5.50@6; common cows \$4.50@5; canners \$3@4.25; best heavy steers (quotable) \$6.50@5; canners \$6.50@7.25; best cows \$6.25@6.50; butcher cows \$5.50@6; common cows \$4.50@5; canners \$3@4.25; best heavy steers (quotable) \$6.50@5; canners \$6.50@7.25; best cows \$6.25@6.50; butcher cows \$5.50@6; common cows \$4.50@5; canners \$3@4.25; best heavy steers (quotable) \$6.50@5; canners \$6.50@7.25; best cows \$6.25@6.50; butcher cows \$5.50@6; common cows \$4.50@5; canners \$3@4.25; best heavy steers and heifers \$6.75@7.25; stock bulls \$4.50@6.75; milketers \$6.75@7.25; stock bulls \$4.50@6.75; milke ers and springers \$40@90.

Veal Calves.

Receipts this week 558; last week 438; market steady. Best \$11@11.75; others \$7@9.50.

Sheep and Lambs. 6705; market steady Be Best lambs

You Want a Farm?

The Best Light Co.

280 E. 5th St., Canton, O.

You Want a Farm?

The Best Light Co.

Receipts this week 6546; last week 67.50; fair do \$7.07.25; light to common do \$6.50 @6.75; fair to good sheep \$4.50 @5; culls and common \$3.50 @4.

Receipts this week 5264; last 6056; market steady; all grades \$8.60.

All Trace of Hog Worms Disappeared After Feeding Merry War Powdered Lye

"I have used MERRY WAR POWDERED LYE according to directions and will say that the results obtained were far beyond expectations. Just before we commenced feeding MERRY WAR POWDERED LYE we killed some hogs and found they were badly infested with intestinal worms. After feeding your preparation only twenty days we killed some more out of the same feed lot, and all trace of worms had disappeared. My herd of swine is now in far better condition than it ever was".

(Original letter on file in our office, Name and address will be furnished upon application to us. E. Myers Lye Co.)

Merry War POWDERED LYC

To Feed Regularly, Twice Each Day A 10c Can of Merry War POWDERED Lye Contains 120 Feeds—
enough to keep a hog well conditioned for 2 months. For sale at most druggists, grocers and feed dealers. It is convenient to buy in case lots, 4 dozen cans, \$4.80, at which price we will ship it to you direct, prepaid, if your dealers won't supply you. When ordering send us your dealers' names.

Don't Take Chances Putting Anything Claimed To Be
"Just As Good" In Your Hogs' Stomachs
Don't make doubtful and perhaps dangerous experiments with "any old lye". Merry War POWDERED Lye has been proven—its use is not an
experiment—it is safe to use according to simple
directions.

Let us send you free our valuable booklet "How to Get the Biggest Profits from Hog Raising". E. MYERS LYE CO., St. Louis, Mo., Dept. 178





H. L. Miles, Dealer in Plaster, Cement, etc. Check for bottle Save-The-Horse. My sons ordered a bottle a few years ago and cured two spavins.

A Bad Splint. W. J. Parks, Lake Linden, which, writes: My horse had a large splint close to knee, pronounced incurable by two V. S. The horse went sound after three weeks' treatment with Save-The-Horse, is driven daily; now over several months and there is no lameness.

we or a months and there is no lameness.

We Originated the treatment of horses—Under Signed Contract to Return Money if Remedy Pails on Ringbone—Thoropin—SPAVIN and ALL—Shoulder, Knee, Ankle, Hoof and Tendon Disease.

BUT WRITE and we will send our BOOK—Sample Contract and ADVICE—ALL FREE to (Horse Owners and Managers—Only). Address

TROY CHEMICAL CO., 20 Commerce Ave., Binghamton, N.Y. Druggists everywhere sell Save The Horse WITH CONTRACT, or we send by Parcel Post or Express paid,



Raddles \$3.00 app army Revolvers \$1.65 up Bridles ... 90 "B-L Rilles 95 "Swords 35 "Eagnings, pair ... 15 " 78 hot Carbine 2.50 "Ents 2.85 "New Uniforms ... 1.50 "Colts Cal. 45 Revolver \$7.45. Ctgs. 1c cach. 15 Acres Government Auction Bargains illustrated and described in 420 large age wholesale and retail cyclopedia castalogue, mailed 25 cents East and 30 cents West of the Mississippi River.

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Feed Molasses

Cuts cost of feeding. Write quick for prices. PITTSBURGH MOLASSES CO., Dept. MF. 706 Penn Ave-

POULTRY, BROILERS, FRUITS, POTATOES, ONIONS,

Let us handle your poultry, fruits, farm products. Our 25 years in the same store assures your satisfactory results. CHAS. W. RUDD & SON, Detroit, Michigan.

Ship your Hay to Pittsburgh and to Daniel McCaffrey Sons Company Pittsburgh, Pa.

Griggs, Fuller & Co., Wholesale Commission House, potatoes, poultry and rabbits. Quick returns.

HAY-We pay highest market price for lots. E. L. Richmond Co., Detroit.

FARMERS—We are paying good premium above the Official Detroit Market for new laid eggs shipped direct to us by express. Write us laid eggs shipped direct to us by express. Write us for information. It will pay you. American Butter & Cheese Co. 31-33 Griswold St., Detroit, Mich.

APPLES AND POTATOES MAKE YOUR SHIPMNTS TO

ALFALFA HAY FOR SALE. 118 per ton, E. A. SMITH, Wayland, Michigan.

FOR SALE—Registered weauling Stallion Colts from our best Percheron Mares. Write, R. S. HUDSON, Michigan, Agri-cultural College, E. Lansing, Michigan,

Registered Percherons, BROOD MARES, FILLIES AND YOUNG STALLIONS at prices that will surprise you L. C. HUNT & CO., Eaton Rapids, Michigan.

BELGIAN One 36 months 1800. One 14 months 1200. Big Bone; at Farmers Prices. FRANK EUSSELL, Fulton, Mich.

Pigeon Pony Farm—Reg. Shetland Ponies, mostly stock for sale. Dr. W. T. Morrison, Pigeon, Mich.

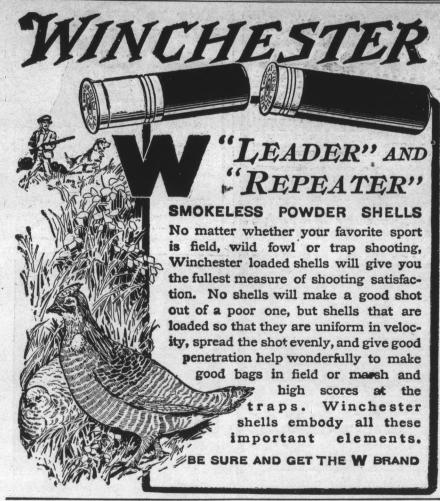
41 - Head of Holsteins - 41

At Public Sale at the Residence of

The stock consigned includes 30 cows and heifers and 11 bulls from 14 months old down to calves. Ten cows are either fresh or will be soon; four 2-year-olds are coming in; the balance yearlings and heifer calves. These cows are daughters of such bulls as Sir Butterfly De Kol 37557, Briar Mercedes Butter Boy 55756, Woodcrest De Kol Lad 45103 and the cows and heifers are with calf by such bulls as Elzevere King of Butter Kings 71595 and Stony Brook Pontiac Pietertje 71636.

Sale will commence at 10 A. M. Auctioneer, Col. Charles Thompson. Clerk, Stephen Pearl. Manager, S. T. Wood.

F. W. SAVAGE, - - Belleville, Michigan.



CUSTOM TANNING

We are prepared to do all kinds of Fur Tanning, lattle or Horsehides, calf, dog, deer or any kind of rild or domestic animals; dye and finish them. We an make them into Coats, Robes, or Rugs, if esired furnishing all trimmings and linings. We olicit your business and are well equipped to do a cood job. Brown & Sehler Co., Grand Rapids, Mich.

White and Brown Ferrets for Sale Prices free. Will driv. and all small animals out of holes. Burt Ewell, Wellington, O

POULTRY.

HERE'S YOUR OPPORTUNITY Fawn and white runner pure white runner drakes, best in U. S. BIVERVIEW FARM, R. No. S. Vassar. Mich.

PINE CREST WHITE ORPINGTONS 3 and 4 months ockerels, few yearling hens. Get a start, now. Mrs. Willis Hough Pine Crest Farm, Royal Oak, Mich.

PLYMOUTH Rook cockerels 5 to 11 lbs., according to age, hens 5 to 8 lbs., 15 eggs \$1; Mammoth Bronze Tom Turkeys 8 to 35 lbs. according to age. Price \$8 to \$25. 10 eggs \$3. A. E. CHAMTON, Vassar, Mich.

WHITE WYANDOTTES FROM 272 EGG STRAIN. CLARE SHUMAN, Route 21, Sparta, Michigan.

Buff Orpington Cockerels—Fine stock, fine birds REV. O. N. BELDIN, Marlette, Michigan.

S. L. WYANDOTTE EGGS—From great laying strain of Blue Ribbon Birds, Satisfaction guaranteed. F.E. Cowdrey, Ithaca, Mich.

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

SILVER, White and Golden Wyandottes. Eggs from Whites \$1.50 per 15, \$2.50 per 30. Silvers & Goldens at catalog prices. Browning's Wyandotte Farm. Portland, Michigan

Barred Rocks—All prize winners and breeding stock w. C. COFFMAN, R. No. 6, Benton Harbor, Mich

FOX, COON AND RABBIT HOUNDS Broke to gun and field, Prices right. Fox and Coon hound pups \$5 each. Stamp for reply.

H. C. LYTLE, Fredericksburg, Ohio.

Trained Running Fox Hounds -30 Fox and Coon hound pups, 500 Ferrets, Ponice Send stamp. W. E. LECKY, Holmesville, Ohio,

Fox and Wolf Hounds



of the best English strain in America 40 years experience in breeding these fine hounds for my own sport. Save your pigs sheep and poultry. Send stamp for catalog T. B. HUDSPETH,

Sibley, Jackson County, Mo.

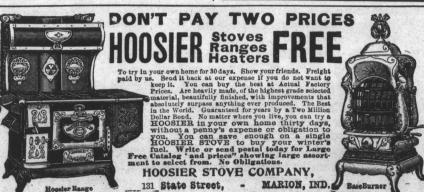


Cheaper than Wood and More Durable Cheaper than Wood and More Durable Adapted to all conditions and absolutely satisfactory, no matter how heavy the fence nor how hard the absolutely not the third that the satisfactory is a support to the fence than wood post, and you get the benefit of every post in the fence from year to year, while wood posts nurr, rot, and decay from the start. Have been in least the fence from year to year, while wood posts nurr, rot, and decay from the start. Have been in least the fence is the start of the lists of of th



BOOK ON Dog Diseases

AND HOW TO FEED Mailed Free to any address by the author H. CLAY GLOVER, V.S. 118 West 31st Street



Poultry and Bees.

Developing the Young Pullets.

are another prominent cause.

they have made a fair start in life; ture is not needed. the other farm work demands so much attention that the chickens are left to rustle for themselves. Young chicks dications of approaching maturity by grow very rapidly, the coops soon get the reddening of the comb and wattles overcrowded and filthy and they are and by following the attendant about, fed scantily and irregularly.

ing yard and at night they are comtimes under the hens, or in the nests. more than bundles of skin, bones and begin to show reddening combs and scratching floors. be looking for a secluded place in which to make a nest.

Proper Care Pays.

If given proper care and liberal rations of bone and muscle building foods the pullets will reach laying maturity at from six to seven months old, that is, if they are hatched early enough so that they will reach such development before cold weather sets in. If they do not reach this maturity before cold weather comes it is almost impossible to induce them to start laying before the approach of spring. The ideal pullet for winter laying is one that reaches the desired maturity by the first week in November, and then by good care and food is kept laying through the winter.

The pullets that show indications of laying ability and early development should be separated from the cockerels and other members of the flock and given a chance to grow and develop. They should have the run of a large yard, or better still, the range of the whole farm, so that they may gather insects and green food. Then if they have an abundant supply of pure water, grit and oyster shells, and all of the whole and cracked grains they will eat, they will make the best gains they are capable of.

Simplifying the Care of the Hens. is greatly simplified by feeding a mixture of dry grains, beef scraps and other foods in self-feeders with parfeeders two or three times a week and ter sanitary conditions will prevail day or two, until the foot heals. and the grass will not be killed out by the presence of the coops and the chicks. By making plans to do the

est market price. Liberal, but not extravagant, feed-respectively.

THE scarcity of fresh-laid eggs on ing is the basis of success in developand early winter months is usu- ing pullets just the same as all other most farms during the late fall animals, and the term "liberal feedally the result of improper methods of ing" means a variety of the kinds of feeding and developing the young pul- feed needed to promote growth and lets. The fact that a few of the most normal development. An ideal grain vigorous pullets begin to lay indicates mixture for feeding pullets that have that many more of them might be the run of the fields and orchards conlaying if the right methods of feeding sists of 200 pounds of cracked corn, and developing them were adopted. It 100 pounds of wheat and 50 pounds of is true that late hatches are the rule, buckwheat. This, fed along with grit, rather than the exception on the av- oyster shells and beef scraps will proerage farm, but it is equally true that duce ideal results. Some prefer to neglect, indifference and poor feeding use a dry mash of bran, corn meal and middlings in connection with the On the average farm little interest whole and cracked grains, but if the is taken in the spring chickens after pullets have a good range such a mix-

When they Begin to Lay.

When the pullets begin to show inthe addition of beef scraps and mid-On many farms the chickens and dlings will help start them to laying. old hens are shut up in a foul smell- Once they begin to lay it is easy, by good care and proper feeding, to keep pelled to roost on a filthy floor, many them laying throughout the late fall and early winter. By providing ample Subjected to such treatment they fall room and encouraging them to exereasy victims to disease and vermin cise in a good dry scratching litter, which they have contracted from the into which is thrown two feeds a day older fowls. At best they are nothing of scratch food they will be busy and contented. Straw, coarse hay and dry feathers at the time when they should leaves make ideal litter for the

W. MILTON KELLY. New York.

BUMBLEFOOT.

Bumblefoot is not a disease; it is, rather, the result of an injury to the foot and if not given attention will spoil the appearance, if not the usefulness of the bird. It is most common in the summer and fall months and appears mostly among the old fat hens or male birds. One of the chief causes is the high roosting pole, necessitating a heavy drop when flying down. This bruises the foot and causes it to swell. Another cause is scratching in hard dry ground and among cobblestones. When ground is dry and hot, the fowls feet seem to suffer and bumblefoot becomes more frequent. For this reason it is a good plan to have a shady spot in the yard which should be wet down frequently. Birds allowed on the range, where they can get into the grass while it is still wet with dew, seldom have any trouble with the feet. Moisture helps any injury that may be incurred, to heal quickly.

The cause of the trouble is a bruise on the soft pad of the foot. This bruise swells and fills with pus, which in time becomes a hard lump, causing The work of caring for the pullets permanent enlargement and disfigurement of the foot. When a bird is seen to go lame an examination should be made. If the foot is hot titions to separate the different foods and shows signs of pus, lance it with and materials. By filling the self- a sharp-pointed knife, which has first been sterilized in boiling water. Then keeping an abundant supply of fresh squeeze out the pus and wash the foot water at hand at all times, the labor in a good disinfectant. Boracic acid will be minimized. With large coops dissolved in water is excellent for that lift off from platforms it is an this purpose. After drying, wrap the easy matter to clean and disinfect the foot in a clean cloth and place the coops and dispose of the droppings. fowl in a clean coop, where there is By moving the coops once a week bet. not much chance to move about, for a

N. H.

In the course of the season a lot daily poultry chores at a time when of Barred Plymouth Rocks, having had we do the other chores the work free range and access to green feed does not seem a burden and the pul- all of the time, averaged a little over lets will be ready to lay eggs at the one pound havier than a similar lot time when they are bringing the high- kept confined. The mortality of the two lots was eight and 24 per cent

Farmers' Clubs

CIATION OF FARMERS' CLUBS.

President—Jas. N. McBride, Burton. Vice-president—J. F. Rieman, Flint. Secretary-Treasurer — Mrs. C. P. Johnson, Metamora. Corresponding Secretary—Mrs. J. S. Brown, Howell

Brown, Howell.

Directors—Wm. T. Hill, Carson City;
Jerry Spaulding, Belding; R. J. Robb,
Mason; Joseph Harmon, Battle Creek;
C. B. Scully, Almont; C. T. Hamline,

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

Associational Motto:

mind is the farmer's most valuable appears that the one thing needful to asset."

Associational Sentiment:

"The Farmer: He garners from the soil the primal wealth of nations."

A CLUB TRAVELOGUE.

At the September meeting of the Ingham County Farmers' Club, Mr. E. A. Densmore gave some comparisons between Michigan and the west, and told of some of the things that interested him in his recent trip. In the south he noticed their plowing with one mule or one ox and thought how grateful a Michigan farmer ought to be for his surroundings. Canal street in New Orleans impressed him for its width, as there were four street car tracks. On account of water the cem- of the Grange then spoke on "Recent etery was all above ground and was Improvements in the County," which supported by a rental value—if same will be a help to farmers. was not paid the bones were taken away and someone else given the Galveston was situated upon an island and there was a mammoth of long experience. sea wall, 17 feet high, six feet on top shallow when he had expected to see a large river. He spoke of the rice which Impose Hardships on Farmers." He thought an apple orchard with the great feature. same care would be as profitable as an orange grove. The orange tree

ligators and alfalfa, and described one large tree that was 125 feet to the first limb and would cut 35,000 feet of lumber, the first cut making four cords of four-foot wood. He visited the United States mint at San Francisco but did not know as much about it when he came out as when he went in. so when he came back to Denver, in, so when he came back to Denver, he visited another and asked questions. He described the ten thousand dollar brick, how it was remodeled into a longer and thinner piece, then into a longer and thinner piece, then made into a slab, passed through a punching machine, then an edging machine, where 80 twenty dollar gold pieces were edged in a minute and a hundred stamped in the same time. There are only two or three workers in the same room and they have to pass the civil service examination and also give bonds.

Ironton Grange for exhibits made there. At the October 6 meeting a debate by two competent speakers on, Resolved, "That agriculture is of more importance to the farmer than horticulture," was most interesting.

A Public Meeting was held by the Morenci Grange on October 9 in the I.O.O.F. Temple. Chas. M. Gardner, of Massachusetts, a speaker of national repute and high priest of Demetor, the highest office in the National Grange, was chief speaker.

Grange.

OFFICERS OF THE STATE ASSO. NOTES ON RURAL SCHOOL PRO-GRESS.

> (Continued from last week).
> I heard the Glee Club sing, and give the Swaney school yell, with the same sort of enthusiasm as characterizes any city school. The yell itself, however, was very different. Patrons, members of school boards, teachers and pupils of these schools were present at this meeting for rural progress, and the noticeable thing about them was their pride in their communities and up-to-date school.

With all the apparent evidence of "The skillful hand with cultured latent interest in country schools, it make this interest effective is someone to take the lead. Who? Anybody with zeal and determination enough to overcome obstacles, and deep-seated prejudice if need be. How? By beginning with the school just as it is and making it continually a better one-room school, just as one makes a home, little by little, more convenient, attractive and efficient.

JENNIE BUELL.

ILLINOIS GRANGE NOTES.

Guilford Hope Grange had its roll call responses at a recent meeting in the shape of ideas for improving the general conditions of the neighborhood. This was followed by a talk on how these improvements could be brought to pass. The oldest member

Oak Grove Grange recently had "The Practical Care of Horses and Cattle," discussed by a veterinarian

Burritt Grange had quite a program and 12 feet wide at the base. He of music and recitations not long ago, found the Rio Grande river small and after which there was a talk on "Some of the Laws in this State fields and cane fields in Louisiana and This was followed by the question box, Texas and described an orange grove. of which this Grange always makes a

AMONG THE LIVE GRANGES.

an orange grove. The orange tree will bear some when five years old but is not in full bearing till seven or eight years old, they are picked twice a year, and told of his experience in cultivating. Nothing is sent to the market without a short stem, so there are very many good oranges wasted, and he did his part to save a few.

Around National City there are lemon ranches, and a few years ago when a hard frost came and destroyed the crop, they were left with no income, which never happens with diversified farming in Michigan.

He described an ostrich farm where birds were worth \$250 each. They were plucked when nine months old and every nine months. They have been known to live 65 years and have a stride of 22 feet, traveling 25 miles an hour. He also spoke of raising alligators and alfalfa, and described one large tree that was 125 feet to the first limb and would cut 35,000 feet of

ance of this fruit and will try to create

a sentiment in favor of a greater use of the apple as an article of food.

Premiums from the County Fair to the amount of \$35 were received by Ironton Grange for exhibits made there.

The Favorite of Your Favorite

EN chances to one, your favorite ball-player smokes Tuxedo. We have scores of testimonials from the crack men of the crack nines all over the country, saying that they enjoy Tuxedo and recommending it to you.

Also—look around you the next what I call good, honest, ne you pick out that soft seat in the kind to stick to." time you pick out that soft seat in the bleachers or grandstand and see how many of your neighbors are packing their pipes with Tuxedo or rolling it into cigarettes.

Size up the men who are smoking and endorsing Tuxedo. They're real men, full of life and the joy of life.

The Perfect Tobacco for Pipe and Cigarette

Tuxedo is in a class by itself. It has many imitators—but in the pipe it has no equal. It is made of the best selected Burley Tobacco, the finest that Kentucky grows, ripened, cured and aged until it has reached the tiptop of mildness, mellowness and sweetness. Then it is treated by the original "Tuxedo Process" which takes out all the sting so it cannot possibly bite.

YOU CAN BUY TUXEDO EVERYWHERE

Convenient pouch, aner-lined with moisture-proof paper

Famous green tins, with gold lettering, curved to fit pocket

In Glass Humidors, 50c and 90c

Send us 2 cents in stamps for postage and we will mail you a souvenir tin of TUXEDO tobacco to any

point in the United States. Address THE AMERICAN TOBACCO COMPANY

111 Fifth Avenue New York



CHRISTYMATHEWSON "Tuxedo gets to me in a natural, pleasant way. It's



JOHN J. McGRAW "Tuxedo gives to my pipe smoking a keen enjoyment that I have experienced with no other tobacco. Supreme in mildness and fragrance



LARRY LAJOIE

"Tuxedo and I have been friends for years, and the longer I use it the better I like its mild, soothing effects.

18 H. P. Field Brundage, mounted on steel truck \$275 15 H. P. International Harvester, mounted on steel truck 265 10 H. P. International Harvester, mounted on steel truck 200

110 H. P. Shelby, mounted on steel truck 175
The above engines are not old, worn out machines, they were taken in exchange for heavier power and are guaranteed as good as new.

Address Box 275, Lansing, Michigan.



WANTED! Every person in Michigan who has a Fur Coat, Robe or Set of Furs that needs to be Repaired, Relined or Remodeled to know that The Blissfield Robe & Tanning Company,

Blissfield, Michigan,
does this work and does it right. Send your Fur Garments
to us at our expense. If our price is not satisfactory we
return goods to you PREPAID. Cold weather will soon
be here. Send for free Catalogue.





THE OCTOBER SALE!

Registered Tuberculin-tested HOLSTEIN-FRIESIAN

CATI

State Fair Grounds, Detroit, Mich. October 14 & 15,1914

Michigan is fast coming to the front in the production of Holsteins. This sale will afford an excellent opportunity to purchase foundation-stock and get started right in the most profitable line of the dairy

Among the cattle consigned are:

7 daughters and 8 granddaughters of Johan Hengerveld Lad 45104.

7 daughters of King Pietertje Hartog 53502.

5 daughters of King Mateal 94348. 11 in calf to Johanna Korndyke De Kol 45577.

8 in calf to Ypsiland Sir Pontiac De Kol 79278. 7 in calf to Sir Lieuwkje Korndyke Kate De Kol

Heifers from dams with records up to 30.79. A dozen high class Bulls.

KELLEY and HAEGER, Auctioneers. S. T. WOOD, Sale Mgr. THE MICHIGAN BREEDERS CONSIGNMENT SALE CO.

H. W. NORTON, Jr., Mgr., Howell, Mich. Catalog on request.

101-Reg. Holstein Cows-101 Friday, Oct. 23, at 12 m.

Sale Pavilion, Howell, Mich.

Consigned by the Howell Sales Company of Livingston Co. Daughters of 30-lb. Bulls bred to 50-lb. Bulls, A.R.O. cows and daughters of A. R. O. cows bred to 30-lb. sires. These cattle have been seleted from the herds of 24 prominent breeders of Livingston county and are a fair representation of their stock. The object of this sale is to give the breeders of the state an opportunity to buy representative Livington County Holsteins at a public auction and every effort is being made to present the finest lot of young cows ever offered at a Howell sale. Sold without reserve at your own price. Catalogs Oct 1. at your own price. Catalogs Oct 1.
A. RALPH EASTMAN, Sec.
COL. D. L. PERRY Auc. S. T. WOOD. Ped. Expert.

Screenings, Salvage Grains Bartlett. Co.

BREEDERS' DIRECTORY.

CATTLE.

ABERDEEN ANGUS

Bull calves and yearlings ready for service. Sired by Louis of Viewpont II. Closely related to five Grand Champions—Brother, Sister, Sire, Sire's Brother and Grandsire. (International Grand Champion for three years in succession. Prices \$75 up. Williet prospective purchasers either at Somerset, addison or Addison Junction calves from these bulls You are bound to get good calves from these bulls were with strongly dairy type grade cows.

GEO. B. SMITH & CO..

ADDISON AND SOMERSET, MICHIGAN.

ABERDEEN-ANGUS

HERD FOUNDED IN 1900,
Strains represented consist of Trojan Ericas, Blackbirds and Prides, only, Black Quality Ito, a bull of rare individuality and merit, heads the herd.
WOODCOTE STOCK FARM, Ionia, Mich.

FOR SALE-Pure Bred Aberdeen Angus Cattle.
ANDREW P. EITEL, Vermontville, Michigan.

Guernseys Famous May Rose Strain. A select herd.
Tub. Tested, Several A. R. O. Cows.
J. K. Blatchford, Windermere Farm, Watervliet, Mich.

We have for sale a number of pure Guernsey cows, heifers and bulls, also Berkshire hogs, VILLAGE FARM, Grass Lake, Michigan.

FOR SALE THOROBRED HOLSTEIN HEIFERS AND BULLS. Now is your chance to start a herd. One of the best in the State. Sired by Laundry Girl Butter Boy. Hag Apple Glada Chantha Vale. Elevere Johonna De Vries. Some Others of A. R. O. Dams. Price is \$250 per pair. and up.

Holstein-Friesian Breeder The best fami breeder the br

\$75.00 buys a REGISTERED HOLSTEIN BULL, 12 mo. old, straight as a line evenly marked B. B. REAVEY. Akron, Michigan.

FOR SALE—REGISTERED HOLSTEIN BULL, 1½ years old, ¼ white of popular breeding. A. L. MOORE, Okemos, Mich

Breeders Directory Continued 295.

Disinfect Your Pens

MOST hog diseases are caused from neglect to keep the pens disinfected and free from foul odors. Filthy premises are sure places for the outbreaking of disease and lice. To keep your pens and troughs sanitary you can't use anything better than Dr. Hess Dip and Disinfectant. It is a guaranteed louse killer and a sure destroyer of germs and foul odors. It is used by Dr. Hess himself, who is a qualified veterinarian, doctor of medicine and scientific stock raiser.

Dr. Hess Dip and Disinfectant



CURA-BOS SAVES NEW-BORN CALVES. SCOURS

Positively Cures (also prevents) this dreaded disease. Used extensively in high grade dairies. Trial bottle to reputable stockmen FREE. Send 10 cents for packing and postage.

Dairy size, \$1. postpaid. Veterinary size, \$2. Dairy size, \$1, postpaid. Veterinary size, \$2. TROY CHEMICAL CO., 20 Commerce St., Binghamton, N. Y.

2nd. Breeders' Herd-Kite, 1st; Fisher,

Four of either get, sex of same boar

Kite, 1st; Fisher, 2nd.
Four of either sex, produce of same
sow—Fisher, 1st; Kite, 2nd.
Champion boar over one year, champion boar under one year, champion box under one year, champion by F. E. Kite.
The special premium offered by the American Yorkshire Club for the best young herd consisting of boar and three sows under one year was won by F. E. Kite.

Tamworths.

Tamworths.

Boar, 2 yrs. or over—Oakridge Farm, Oakridge, Va., 1st and 2nd; Adams Bros., Litchfield, Mich., 3rd. Boar, 18 mos. and under 2 yrs.— Oak Ridge Farm, 1st; Adams Bros.,

Boar, 12 mos. and under 18 mos.—Oak Ridge Farm, 1st; Adams Bros.,

2nd.
Boar, 6 mos. and under 12 mos.—
Oak Ridge Farm, 1st and 2nd; Adams
Bros., 3rd and 4th.
Boar, under 6 mos.—Oak Ridge
Farm, 1st; Adams Bros., 2nd and 3rd.
Sow, 2 yrs. or over—Oak Ridge
Farm, 1st and 2nd; Adams Bros., 3rd.
Sow, 18 mos. and under 2 yrs.—Oak
Ridge Farm, 1st, 2nd and 3rd; Adams
Bros., 4th.

Ridge Farm, 1st, 2nd and 3rd; Adams
Bros., 4th.
Sow, 12 mos. and under 18 mos.—
Oak Ridge Farm, 1st and 2nd; Adams
Bros., 3rd and 4th.
Sow, 6 mos. and under 12 mos.—
Oak Ridge Farm, 1st, 2nd and 3rd;
Adams Bros., 4th.
Sow, under 6 mos.—Oak Ridge nell
Farm, 1st, 2nd and 3rd; Adams Bros.,
4th.

Exhibitors Herd—Oak Ridge Farm, 1st; Adams Bros., 2nd. Breeders' Herd—Oak Ridge Farm, 1st; Adams Bros., 2nd.

Adams Bros., 4th.
Four of either sex, produce of same sow—Oak Ridge Farm, 1st; Adams Bros., 2nd.

Champion boar 1 yr. or over, champion boar under 1 yr. champion sow 1 yr. or over, champion sow under 1 yr., grand champion boar, grand champion sow, premier champion exhibitor, pre-mier champion breeder, all won by Oak Ridge Farm.

Shropshires.

Ram, 2 yrs. or over—E. E. Leland & Son, Ann Arbor, Mich., 1st and 5th; Niagara Stock Farm, Lewiston, N. Y., 2nd and 4th; Herbert E. Powell, Ionia, Mich., R. I. 3rd.

Ram, 1 yr.—Powell, 1st and 5th; Niagara Stock Farm, 2nd, 3rd and 4th. Ram, Lamb—Niagara Stock Farm, 1st and 4th; Powell, 2nd; Leland & Son, 3rd and 5th.

Ewe, 1 yr.—Niagara Stock Farm, 1st and 2nd; Leland & Son, 3rd; Powell, 4th and 5th.

Ewe, Lamb—Leland & Son 1st and 5th; Niagara Stock Farm, 2nd and 3rd; Powell, 4th.

Flock—Niagara Stock Farm, 2nd and 3rd; Powell, 4th.

Flock—Niagara Stock Farm, 1st; Leland & Son, 2nd; Powell, 3rd.

Breeders, Young Flock—Niagara Stock Farm, 1st; Leland & Son, 2nd; Powell, 3rd.

Flock, Lamb—Leland & Son, 1st; Powell, 2nd; Niagara Stock Farm, 3rd.

Three Rams. Yearling—Niagara

3rd.
Three Rams, Yearling—Niagara
Stock Farm, 1st; Powell, 2nd; Leland & Son, 3rd.
Get of Sire—Niagara Stock Farm,
1st; Leland & Son, 2nd; Powell, 3rd.
Ram—Powell, 1st; Niagara Stock
Farm, 2nd.
Ewe—Niagara Stock Farm, 1st; Leland & Son, 2nd.

Ewe—Niagara Stock Farm, 1st; Le land & Son, 2nd.

Hampshires.

Ram, 2 yrs. or over—R. A. Kyser, Lowell, Mich., 1st and 3rd; Wm. Newton, Pontiac, Mich., 2nd, 4th and 5th. Ram, 1 yr.—Kyser, 1st and 2nd; Newton, 3rd and 4th. Ram, Lamb—Kyser, 3rd and 4th; Newton, 2nd and 5th.

Newton, 3rd and 4th,
Ram, Lamb—Kyser, 3rd and 4th;
Newton, 2nd and 5th.
Ewe, 2 yrs. or over—Newton, 1st and 3rd; Kyser, 2nd and 4th.
Ewe, 1 yr.—Newton, 1st and 4th;
Kyser, 2nd and 3rd.
Ewe, Lamb—Newton, 1st and 4th;
Kyser, 2nd, 3rd and 5th.
Flock—Newton, 1st; Kyser, 2nd.
Breeders, Young Flock—Kyser, 1st:

Blamer & Son, 2nd and 3rd; Stephens
Stephens, 5th.
Ewe, 1 yr.—Staley, 1st and 3rd;
Blamer & Son, 2nd and 3rd;
Stephens, 5th.
Ewe, 1 yr.—Staley, 1st and 3rd;
Ewe, Lamb—Staley, 1st and 4th;
Stephens, 2nd; Blamer & Son, 3rd
Breeders, Young Flock—Kyser, 1st:

Breeders, Young Flock-Kyser, 1st; Newton, 2nd. Flock, Lamb—Kyser, 1st; Newton, Get of Sire-Kyser, 1st; Newton,

Ram—Kyser, 1st; Newton, 2nd.
Ewe—Newton, 1st; Kyser, 2nd.
Flock, 2 yr, Ewes, 2 Lambs, Ram,
any age—Kyser, 1st.

Oxford Downs.

HOG FEEDS, SALVAGE Bartlett Co.
Bartlett Co.
Jackson, Mich.
ONE HUNDRED HEAD of Stock Cattle
ready for to sell at once. Five cars of two-year-old
steers will be ready for to sell Oct. 15, 1914.

J. B. GARDNER, Cadillac, Michigan. L. B. 437.

OXTORD BOWNS.

Ram, 2 yrs. or over—G. W. Heskett,
Fulton, Ohio, 1st and 2nd; Wm. Newton, Pontiac, Mich., 3rd.
Ram, 1 yr.—Heskett, 1st and 3rd;
Newton, 2nd.
Ram, Lamb—Heskett, 1st, 2nd and
4th; Newton, 3rd.

(Continued from page 3021.

Exhibitors' Herd—Kite, 1st; Fisher, nd.

Breeders' Herd—Kite, 1st; Fisher, nd.

Four of either get, sex of same boar—Kite, 1st; Fisher, 2nd.

Four of either sex, produce of same boar—Sow—Fisher, 1st; Kite, 2nd.

Champion boar over one year, champion in the heavy under one year, champion and control of the c

Get of Sire-Heskett, 1st; Newton,

Champ. Ram and Ewe-Heskett. Southdowns.

Southdowns.

Ram, 2 yrs. or over—Niagara Stock Farm, Lewiston, N. Y., 1st; George W. Heskett, Fulton, O., 2nd; Wm. Newton, Pontiac, Mich., 3rd.
Ram, 1 yr.—Niagara Stock Farm, 1st and 3rd; Heskett, 2nd and 4th.
Ewe, Lamb—Niagara Stock Farm, 1st and 2nd; Heskett, 3rd and 4th.
Ewe, 2 yrs. or over—Niagara Stock Farm, 1st and 2nd; Heskett, 3rd, 4th and 5th.
Ewe, 1 yr.—Niagara Stock Farm, 1st and 2nd; Heskett, 3rd, 4th and 5th.
Ewe, 1 yr.—Niagara Stock Farm, 1st and 2nd; Heskett, 3rd, 4th and 5th.
Ewe, 1 amb—Niagara Stock Farm, 1st and 2nd; Heskett, 3rd and 4th.
Flock—Niagara Stock Farm, 1st; Heskett, 2nd.
Breeders, Young Flock—Niagara Stock Farm, 1st; Heskett, 2nd.
Get of Sire—Niagara Stock Farm, 1st; Heskett, 2nd.
Ram—Niagara Stock Farm, 1st and 2nd.
Ewe—Niagara Stock Farm, 1st and

Ewe-Niagara Stock Farm, 1st and

Lincolns.

Sow, 6 mos. and under 12 mos.—
)ak Ridge Farm, 1st, 2nd and 3rd;
dams Bros., 4th.
Sow, under 6 mos.—Oak Ridge
Farm, 1st, 2nd and 3rd; Adams Bros., th.
Exhibitors Herd—Oak Ridge Farm, st; Adams Bros., 2nd.
Breeders' Herd—Oak Ridge Farm, st; Adams Bros., 2nd.
Four of either sex, get of same boar—Oak Ridge Farm, 1st, 2nd and 3rd;
Adams Bros., 4th.
Four of either sex, produce of same tow—Oak Ridge Farm, 1st; Adams Bros., 2nd.
Champion boar 1 yr. or over, champion boar under 1 yr., champion sow under 1 yr., rand champion boar, grand champion wp, premier champion breeder, all won by Dak Ridge Farm.

Sheep.

Shropshires.

Ram, 2 yrs. or over—E. E. Leland & Son, Ann Arbor, Mich., 1st and 5th; Yiagara Stock Farm, Lewiston, N. Y., and and 4th; Herbert E. Powell, Ionia,

Delaine Merinos.

Delaine Merinos.

Delaine Merinos.

Ram, 2 yrs. or over—W. M. Staley,
Marysville, Ohio, 1st and 3rd; S.
Blamer, & Son, Johnstown, Ohio, 2nd.
Ram, 1 yr.—Blamer & Son, 1st and
4th; Staley, 2nd and 3rd.
Ram, Lamb—Staley, 1st and 2nd;
Blamer & Son, 3rd.
Ewe, 2 yrs. or over—Blamer & Son,
1st and 2nd; Staley, 3rd and 4th.
Ewe, 1 yr.—Staley, 1st and 2nd;
Blamer & Son, 3rd, 4th and 5th.
Ewe, Lamb—Staley, 1st and 2nd;
Blamer & Son, 3rd.
Flock—Blamer & Son, 1st; Staley,
2nd.

Breeders, Young Flock—Staley, 1st;
Blamer & Son, 2nd.

Lamb, Flock—Staley, 1st; Blamer & Son, 2nd.

Get of Sire—Staley, 1st; Blamer & Son. 2nd.

Ram—Staley, 1st; Blamer & Son, 2nd. Ewe-Blamer & Son, 1st; Staley,

American Merinos.

Ram, 2 yrs. or over—Staley, 1st and 3rd; Blamer & Son, 2nd; R. D. Stephens, South Lyon, Mich., 4th and 5th. Ram, 1 yr—Staley, 1st and 4th; Blamer & Son, 2nd and 3rd; Stephens, 5th.

Ram, Lamb—Staley, 1st and 5th; Blamer & Son, 2nd and 3rd; Stephens 4th.

Stephens, 2nd; Blamer & Son, 3rd and 5th.

Flock—Staley, 1st; Blamer & Son, 2nd; Stephens, 3rd.

Breeders, Young Flock—Staley, 1st; Blamer & Son, 2nd; Stephens, 3rd.

Lamb, Flock—Staley, 1st; Stephens 2nd; Blamer & Son, 3rd.

Get of Sire—Staley, 1st; Stephens, 2nd; Blamer & Son, 3rd.

Ram—Staley, 1st and 2nd.

Ewe—Blamer & Son, 1st; Staley, 2nd.

Rambouillets.

Ram, 2 yrs. or over—A. A. Wood & Son, Saline, Mich., 1st and 3rd; J. M. Shaw & Son, Edison, Ohio, 2nd; P. C. Freeman & Son, Lowell, Mich, 4th and 5th and 5th.

Ram, 1 yr.—Shaw & Son, 1st; Wood

Ram, Lamb—Shaw & Son, 1st;
Wood & Son, 2nd, 3rd and 4th.
Ewe, 2 yrs. or over—Shaw & Son, 1st; Freeman & Son, 2nd and 3rd;
Wood & Son, 4th.
Ewe, 1 yr.—Shaw & Son, 1st; Wood & Son, 2nd and 3rd;
The and 5th an

Ewe, I yr.—Shaw & Son, 1st; Wood & Son, 2nd and 3rd; Freeman & Son, 4th and 5th.

Ewe, Lamb—Shaw & Son, 1st; Wood & Son, 2nd and 5th; Freeman & Son, 3rd and 4th.

Flock—Shaw & Son, 1st; Freeman & Son, 3rd; Wood & Son, 2nd.

Breeders, Young Flock—Wood & Son, 1st; Freeman & Son, 2nd.

Lamb, Flock—Wood & Son, 1st; Freeman & Son, 2nd.

Get of Sire—Wood & Son, 1st; Freeman & Son, 2nd.

Ram—Shaw & Son, 1st.

Ewe—Shaw & Son, 1st.

Ewe—Shaw & Son, 1st.

Horned Dorsets.

Ram, 2 yrs. or over—Geo. C. Woodman, Bennington, Mich., 1st, 2nd and 3rd; Wm. Newton, Pontiac, Mich., 4th.

Ram, 1 yr.—A. C. Fielder, DeGraff, Ohio, 1st; Woodman, 2nd and 4th; Newton, 3rd.

Ram Lamb—Fielder, 1st and 2nd; Woodman, 2nd and 3rd.

Ewe, 2 yrs. or over—Fielder, 1st; Woodman, 2nd and 3rd.

Ewe, 1 yr.—Fielder, 1st; Woodman, 2nd and 3rd; Ewe, 1 yr.—Fielder, 1st and 3rd;

Ewe, 1 yr.—Fielder, 1st; Woodman, 2nd and 3rd. Ewe Lamb—Fielder, 1st and 3rd; Woodman, 2nd, 4th and 5th. Flock—Fielder, 1st; Woodman, 2nd. Breeders' Young Flock—Woodman, 1st; Fielder, 2nd; Newton, 3rd. Lamb Flock—Woodman, 1st; Field-

er, 2nd. Get of Sire—Woodman, 1st; Fielder

Get of Sire—woodman, ist, ricker
2nd.
Gd. Champ. Ram—Fielder.
Gd. Champ. Ewe—Fielder.
Cheviots.
Ram, 2 yrs. or over—F. E. Dawley,
Fayetteville, N. Y., 1st; Woodman,
2nd and 3rd.
Ram 1 yr —Dawley, 1st; Woodman,

2nd and 3rd.
Ram, 1 yr.—Dawley, 1st; Woodman,
2nd and 3rd.
Ram, Lamb—Dawley, 1st; Woodman, 2nd and 3rd.
Ewe, 2 yrs. or over—Dawley, 1st;
Woodman, 2nd and 3rd.
Ewe, 1 yr.—Dawley, 1st and 3rd;
Woodman, 2nd and 4th.
Ewe Lamb—Dawley, 1st and 3rd;
Woodman, 2nd and 4th.
Flock—Dawley, 1st; Woodman, 2nd.
Breeders' Young Flock—Dawley,
1st; Woodman, 2nd.
Lamb Flock—Dawley, 1st; Woodman, 2nd.
Get of Sire—Dawley, 1st; Woodman,

Get of Sire-Dawley, 1st; Woodman

2nd. Gd. Champ. Ram and Ewe—Dawley.
Cotswolds.
Ram, 2 yrs. or over—Norman Park,
Norwich, Ont., 1st and 3rd; James A.
Campbell, Thedford, Ont., 2nd and
4th; Newton, 5th.
Ram, 1 yr.—Campbell, 1st; Park,
2nd, 3rd and 5th; Newton, 4th.
Ram Lamb—Park, 1st, 3rd and 4th;
Campbell, 2nd and 5th.
Ewe, 2 yrs. or over—Park, 1st;
Campbell, 2nd, 3rd and 4th; Newton,
5th.

5th.
Ewe, 1 yr.—Park, 1st, 4th and 5th;
Campbell, 2nd and 3rd.
Ewe Lamb—Park, 1st and 3rd;
Campbell, 2nd and 4th; Newton, 5th.
Flock—Park, 1st; Campbell, 2nd;
Newton, 3rd.
Breeders' Young Flock—Campbell,
1st; Park, 2nd.
Lamb Flock—Campbell, 1st; Park,
2nd.

Get of Sire-Park, 1st; Campbell,

2nd. Gd. Champ. Ram-Park, 1st; Campbell, 2nd.

Gd. Champ. Ram Tark, 15t, Campbell, 2nd.
Gd. Champ. Ewe—Park.
Fat Sheep—Open to all Pure-Breds.
Middlewood Wether, over 2 yrs.—
Newton, 1st and 2nd.
Middlewood Wether, 1 yr. and under 2—Heskett, 1st and 2nd.
Middlewood Wether—Heskett, 1st.
Longwood Wether, over 2 yrs.—
Newton, 1st and 2nd.
Longwood Wether, 1 yr. and under 2—Gosnell & Son, 1st; Campbell, 2nd.
Longwood Wether, under 1 yr.—
Gosnell & Sons, 1st; Newton, 2nd.
Longwood Wether—Gosnell & Sons, 1st.

Merino Wether, over 2 yrs.—Newton, 1st and 2nd.
Merino Wether, under 1 yr.—Freeman & Sons, 1st and 2nd.
Merino Wether—Newton, 1st.

The reason for the low prices is because buyers are afraid of the new storage law now before congress. This law, if passed, which at present seems quite likely, will be a great blow to the onionl industry, according to the sentiment of some of the onion buyers. As the law would give power to a commissioner to regulate the buying and selling prices of commodities handled by all storage houses and grain elevators, it is feared disastrous results would follow as the commissioner could dictate what prices on ion storage men should pay, and what prices they should sell them for. Taken altogether, the onion situation is not favorable, although there are still some who believe the law will not be passed.

MILO D. CAMPBELL.

GHAS. J. ANGEVINE.

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We have for sale imported and home bred Bull Calves, guaranteed free from tuberculosis. They are fine and have had the best of care. Send for sale list, or what is better for both parties, come and see them.

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Theap if taken soon the best breeding yet. Write
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FROM 1 to 3 YEARS OLD

Ten Bull calves, two to ten months old. Ten cows, Your Choice from my entire herd. Don't let anybody make you believe he can sell you a better bull for less money than I can. Don't delay the purchase of bull until the other fellow gets the one you want. Write me or come at once.

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PSILANTI, MICH., offers
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daughters. Prices reasonable.

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Tecumseh, Michigan, R. F. D. No. 2, or address
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"Top=Notch" Holsteins.

Extra large fine young bull. 3 white, born Oct. 4, 1913.

Dam has official record of 22.40 lbs. butter in 7 days.

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For Sale—High grade Holstein calves by 25 lb sire. Week old bulls \$10., crated OHAS. S. RILEY, R. No. 1, Metamora, Michigan

HOLSTEIN BULL -27.42 lb, dam, her dam 30,59 lbs. 5 nearest dams average 25 lbs, Born Nov. 1911. Gentle, quick, sure. \$150 delivered. Hobart W. Fay, Mason, Mich

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Breeder of High Grade Holstein Cattle. Lists and
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A splendid individual of excellent breeding, Soon ready for service. Write for particulars. CHASE S. OSBOBN. ADAM E. FERGUSON, Owners, L. M. HATCH. Supt.

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World record stock \$150 to \$400. LONG BEACH FARMS, Augusta, Kalamazoo Co., Michigan.

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Shropshire Yearling and Ram Lambs, large frames Wool and Mutton type. Also O. I. O. swine G. P. ANDREWS, Dansville, Michigan.

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Poland Chinas of the big type. March and April farrow. The kind that please our customers. A. A. WOOD & SON, Saline, Mich.

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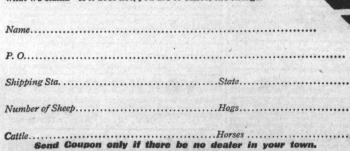
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