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

DETROIT, MICH., SATURDAY, OCT. 3, 1914.

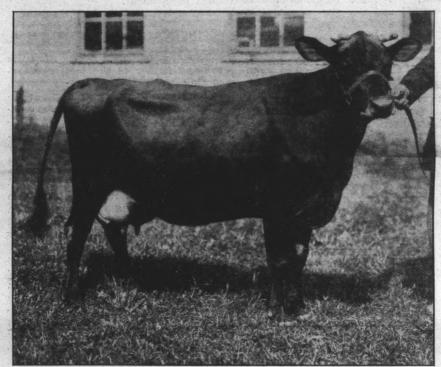
Harvesting the Late Potato Crop.

total crop for New York, our nearest vesting other crops, especially when of the ground. competitor in production. The Sep- the work extends well into October, tember estimate of our crop for this year is approximately 20 per cent above the final estimate of Michigan's crop for 1913, as compared with an increase for the country of less than 12 per cent. It will thus be seen that the rapid increase in importance of our potato crop during recent years has been maintained during the past year, which makes its harvesting a more important item of fall work upon the average Michigan farm and a task which requires careful planning and efficient prosecution if the crop is to be saved in a condition which will make it of maximum market value.

Preparations for Potato Harvest.

To the end that the work of harvesting the potato crop may be rapidly pushed when once begun, it is important that needed preparations be made in advance of the actual work. On practically every farm where potato growing is made a specialty, it is now common practice to handle the crop in crates, hence it is the part of wisdom to look over this equipment before potato harvest is begun, and see that it is adequate to the needs of the method of harvesting which is followed. Bushel crates are comparatively inexpensive and will last many without an ample supply of crates.

readiness for efficient work from the it is started. start. Where a horse-digger is used, as is the case upon most farms where fully gone over and worn parts re- in order to eliminate as much as pos- practical under existing conditions.



Jersey Cow, Majesty's Crocus, Winner of the State Fair Milk Contest.

The Time to Begin Harvesting.

placed with needed repairs, to the end sible the liability of loss from early

years if properly cared for, and it is when hard freezes may be expected down any fixed rule which can be ad- digger. In that case it is best to use poor economy to undertake to harvest which will damage the keeping qual- hered to under all circumstances as to a stoneboat or sled for picking, as any considerable area of potatoes ity of the tubers, and every preparathe time when the harvesting of the this lightens the labor very materialtion should be made which will elim- late crop should be commenced. Un- ly. A half-dozen or more crates may Other equipment should also be in inate costly delays in the work after usual conditions will arise which will be placed on the boat and a steady make it necessary to vary the usual horse will draw them along until fillprogram, but it is better to have a ed with little attention, when they For many years the writer has standard which experience has dem- may be set off to be hauled to the celpotatoes are grown on a commercial made an effort to begin the potato onstrated to be safe practice and then lar on the platform wagon, or drawn scale, this implement should be care harvest the first Monday in October work as closely to that standard as is directly to the pit, as the case may be.

This year promises to be one in picking this method is of doubtful

HE potato crop is one of the most that there may be no costly delays freezes. A freeze which touches the which it will be necessary to vary our important of Michigan's cash from this cause during the harvesting tubers ever so lightly is a costly fac- rule and delay the beginning of the crops. Last year Michigan forg- season. If the potatoes are to be stor- tor in the future handling of the crop, potato harvest until after the usual ed into first place in the produc- ed in the cellar directly from the field, necessitating re-sorting and often re- time. The distribution of rainfall durtion of potatoes, and this year she will which is undoubtedly the most eco- peated sortings if the crop is to be ing the growing season of the crop be well in the lead of all the states in nomical method of handling the crop held for any length of time and an ex- has been unusually even and condithe size of her potato crop if the offi- where it is to be held for winter mar- tra handling even if marketed as soon tions have been unusually favorable cial September estimates are verified keting, everything should be in readi- as practical. It is, of course, unde- for a maximum growth of vines. Our in the final yield. The September es-ness for such storage in advance of sirable to dig the crop before the tu-potatoes are planted in drills 24 inches timate on our potato crop for this the beginning of the work. Time is bers are fairly well matured, but it is apart, and the vines are so large that year was 41,300,000 bushels, which is money in the harvesting of the pota-better to err on this side than to leave they completely cover the ground be-700,000 bushels above the estimated to crop even more truly than in har- them too late before getting them out tween the rows and it will be impossible to work them through a digger Of course, it is impossible to lay until they have matured or are killed by frost, especially when the ground is wet and heavy as now promises to be the case during early October. This condition is quite universal in the best potato sections of the state and promises to make the potato harvest unusually late this fall. There is, of course, less danger of damage to the tubers by freezing when the ground is protected by a heavy growth of vines, but this is not a safe dependence if the harvest is delayed too long. In that event we shall take the precaution to throw the earth up against the rows with a shovel plow as an added protection against damage from frost. This is easily and cheaply accomplished and under unusual conditions, such as promise to prevail this year, and might easily pay very large dividends on the small investment of labor required.

Methods of Harvesting.

The scarcity and high price of farm labor has increased the popularity and use of the horse digger very rapidly in recent years, as less efficient help is required to harvest the crop with the machine digger than when dug by hand. In many localities it is necessary to employ the schoolboys and girls to pick up the tubers after the Where men are employed to do the



The Line-up of Cows Competing in the Four-day Milk Test at the Recent State Fair, Including Jerseys, Brown Swiss and Guernseys. (See page 278).

and leave it where filled, if the crates to do this. are thickly distributed along the row made larger and located to better ad- owner. vantage where this plan is followed, plan will involve less handling.

Sorting and Storing.

Sorting in the field at digging time ticed to such an extent as it is.

not run chances on delays in delivery or otherwise. which will interfere with the work of to cover the pits securely with straw the visitor. or marsh hay and earth each night having a disagreeable job of picking ate and characteristic name. and a mussy lot of potatoes to handle

A Cover Crop After Potatoes.

Where the potato ground is to be plowed the following spring it is an plowed down the following spring, and country will be impoverished. We prosperity is largely dependent. This is an excellent practice, particu- are told that the farmers of Germany, during the spring freshets, although acre as we do, and leave the inference methods of farming. Both methods are also. When the teams came back is to be put into a spring crop with- ing twice as much profit in raising er, however, following either method of husks, etc. This has made quite a out plowing.

which should properly be governed by ways be the most profitable. the conditions with which the grower agement is a faculty into which the of producing all valuable commodities ments in balanced proportion and in of the plant. We will cut in a day or personal equation must ever largely enter. The purpose of this article and manufactured goods. Better farm- practice dairying and grain grawing, continue it will go off rapidly. The will, however, be well served if the might be described which the increased cost of labor, and stable manure to my soil, but I find large enough to make quite a cutting, attention of the commercial potato which the increased cost of labor, and stable manure to my soil, but I find large enough to make quite a cutting, attention of the commercial potato which the increased that barnyard manure and clover are but I shall leave this as a winter progrower who reads it is, for the moment, attracted from other important value of the product. and perplexing questions and directed the manner best suited to his local crops at present prices for farm pro- cient in phosphoric acid and potash. beans will not mature sufficiently to conditions.

Oakland Co. A. R. FARMER.

A NAME FOR THE FARM.

economy where the picking is done true they have, and some people have wheat on land with unsuitable soil, some form or other in order to mainafter a digger. It is a faster method probably inquired of themselves, what and had better change to rye, or buck- tain a proper balance of plant food to have two men pick into one crate motive it has been to inspire farmers wheat.

from the wagon while the filled crates clude, the farms, bearing names, are but it should be remembered that la- dressing for wheat, both in the fall are being loaded. If pitted in the usually operated by very progressive bor is cheaper there, and potash fer- and during winter, I find that splendid field, the potatoes can be hauled to men, moreover, naming the farm has tilizers much cheaper. Not only this, clover catches can be secured, consethe pits faster with the wagon than added a certain amount of dignity and but the farmers there obtain a higher quently returning to the soil a large on the stoneboat, and the pits can be individuality to the farm and its price for their products with the mar- amount of organic matter. I never

and if the tubers are drawn from the may be induced to placard the farm labor and manures, and still leave a I am annually increasing the amount field to the cellar, or to market, this for sentimental reasons alone, but margin of profit. there must be some reason deeper still than this, or it would not be prac- much labor and fertilizers can a farm- yields are secured when quick-acting

is generally poor economy, as it takes The writer recalls that a certain crease the number of bushels per stable manure and green manuring. time when time is too valuable to be family has learned to recognize the acre, the number of dollars they will I believe that every farmer, regardless so expended on that work. Some quality of butter as being clean and bring, and leave him a reasonable of whether he is practicing stock or growers leave the unmerchantable tu- fresh because it came from the Crys- profit? bers in the field, but this is poor econ- tal Lake Farm, and it had become an omy, as they have a value as stock established fact that the owner of that fair, (which the writer heard), Horace of highly concentrated fertilizer to his feed which is far greater than the cost farm marketed none but the best. Greeley said: "I suppose you have crops at sowing time. I find that with of handling them. The best way is to When any product has been marketed got past the folly of hoeing corn?" wheat, oats, barley and beans that 200 pick them clean and sort with a me- for a few years, bearing the name of Some of us said, "No!" "Well," said to 300 pounds of quick-acting fertilizer chanical sorter from the cellar or pit the farm upon which it was produced, he, "Corn is so cheap, and labor so materially increases my yields and when the crop is moved or marketed. it soon has a reputation, and if the dear, you cannot afford to do it. Give further assists in replacing plant food Growers who are located close to a quality is deserving, the demand for it good cultivation with a horse, and constituents in the soil removed by good market or shipping point can it is increased, finally the most care- let it go." sometimes market the crop from the ful buyers will have no other unless field at digging time to good advan- the brand they specify cannot be se- the low price of farm products, comtage, but if the digging is not finished cured. It is evident then, that farms paratively, the farmers in times past until late, or if plenty of help is not often bear names for other than senti- have been compelled to raise their available, it is a safer plan to get the mental reasons. It is a practice that crops with as little labor as possible. crop out of the ground and in safe should be encouraged if it appeals to The higher prices which are now prestorage as rapidly as possible, and an owner for any reason, sentimental vailing have already increased the

Now that the time of pioneering is harvesting. Where cellar storage is gone, the farm buildings are con-tural Department. available it is, in the writer's opinion, structed and the stumps are cleared far the best plan to place the tubers from the fields, more time and directly into the cellar. It costs lit- thought is given to the appearance of tle, if any more, to handle them into the farm home and farm barns. Durthe cellar than to pit them, and it ing the last few years of prosperity, makes one far more independent as owners are more inclined to study the to their future disposition where they home from the view that others see are so stored from the field. But if it to improve their dooryards and

With the common use of automothan to use a temporary covering with biles and the increase of travel, perits consequent risk and later disad- fecting appearances becomes all the acres of valuable farming land in this ter that we sowed late to prevent vantages. It is also best to keep the more important and it is the wish and adjoining states have become injury. tubers picked up as close to the dig- that the progress will continue until ger as practicable, as there is less every farm worthy of a name will be risk of getting caught by rain and modestly placarded with an appropri-

W. I. GILSON. Ingham Co.

DOES BETTER FARMING PAY?

is confronted. In fact, good farm man- that enters most largely into the cost supplied with mineral and organic ele- just beginning to start from the crown -farm products, coal, iron, lumber, quick-acting form. On my farm I two. If this nice weather will only will, however, be well served if the ing pays up to a certain point, after I endeavor to apply large quantities of field I seeded with oats in May is

other farmers are not doing it.

wheat produced per acre in the Uni-manure and applying it to the soil, Well, I can make them into hay or ted States in the year 1912 and 1913 will not find it as necessary to pur-ensilage. The crop, however, will be I wonder if you have noticed in re- was 151/2. As many farmers raise 20 chase large quantities of nitrogenous a failure. The way things have turncent years, that the number of farms and 25 bushels an acre, it is plainly fertilizer. The stockless farmer, how- ed out it would have paid me better and farm barns neatly placarded with evident that many others do not raise ever, who has not this barnyard re- to summer-fallow and sow wheat on sign boards bearing the farm name more than eight or 10 bushels. Some source to draw upon, will find it very time, or perhaps better yet, to have

Thirty bushels of wheat per acre

er put on his fields in order to in-fertilizer is used as a supplement to

Owing to the high cost of labor, and yield per acre, as shown by the statistics of the United States Agricul-

J. W. INGHAM. Pennsylvania.

INCREASING CROP YIELDS.

ure, depleted the available plant food fiy. Late years not at all. greatly reduced in profit paying returns for grain raising. upon.

An increase in crop yields involves year, early or late sowing. a radical change from methods now For years past we have been urged employed on the majority of Michigan excellent plan to sow rye broadcast by high authorities to grow bigger farms. Plowing and cultivating the yield of sweet corn. After harvesting before digging is commenced. The crops—to raise more bushels per acre, soil for what it will produce, regard- the first field I estimated I would have digger will work this into the soil in James J. Hill, president of a great less of any method of increasing its over 100 tons, but the late planted did fine shape and the ground will soon railroad system, has repeatedly de plant food content, must ultimately not yield as well and we only have 90 be growing a cover crop which will clared that unless the farmers of the result in failure. The soil is the farm- tons. One field yielded over four tons prevent any loss of soluble plant food United States raise more grain per ers' storehouse of wealth and upon per acre, but on the whole, the averover winter and will add considerable acre, we soon will be importing more the methods employed to preserve age was a little less than 3 tons. At over winter and will and considerable than we are selling, and our farms and increase its resources his future the factory price of \$8 per ton this

the harvesting of the potato crop the fact that large crops may not al- creasing crop yields, as success large- otherwise would come back light. ly rests upon keeping the soil in prop-The price of labor is the element er physical condition and abundantly ready to harvest. The new growth is not sufficient to produce satisfactory tection for the plants. No doubt some farmers are now yields of crops. The stable manure to the solution of this important mat- putting on as much tillage, and fer- and clover increase the nitrogen ele- I am pretty well satisfied now, Septo the solution of this important matter than the solution of the soll, but both are defited tember 24, that the late planted limater of the soil, but both are defited tember 24, that the late planted limater of the soil, but both are defited tember 24, that the late planted limater of the soil, but both are defited tember 24, that the late planted limater of the soil is soil to the soil that the late planted limater of the soil is soil to the soil that the late planted limater of the so ducts, and the cost of labor. Many The dairy farmer who is feeding his harvest. The first planting was The average number of bushels of cottonseed meal, and preserving the the field replanted July 7-8-too late. have increased many-fold? It is quite of the latter are probably raising profitable to purchase nitrogen in sown to buckwheat.

elements in the soil.

Where attention is directed to ap-My observation has led me to con- is the average production in Europe, plying manure to the land as a topket at their doors, which enables them allow a clover meadow to lay more Those with artistic temperaments to be more liberal in expenditures for than one season and do not pasture. of commercial fertilizer on all my The question to be decided is how crops as I find that more profitable stockless methods of handling the soil In an address at an agricultural can afford to apply a liberal amount the crop grown.

Shiawassee Co. L. C. REYNOLDS.

LILLIE FARMSTEAD NOTES.

We finished sowing 70 acres of wheat on September 15. The balance will not be sown till the very last of the month or the first part of October. I don't like to sow wheat in October: it is pretty late for this latitude. If the year is favorable all is well. have had good crops of wheat sown well into the month of October, but it is pretty risky. Again, if sown early The great problem confronting the the Hessian fly may ruin the crop. In average farmer is the matter of re- some sections of Michigan the wheat storing plant food elements to the was ruined this year by the fly, where soil. Upon this largely depends in the wheat was sown early in Septempitting is necessary it is the best plan buildings to please the passer-by and creased crop yields. Continuous crop- ber last fall. In this section we have ping of the soil has in a large meas- never been seriously injured by the constituents in the soil, until many years ago there was some injury. Af-

However, this year it was sow early Profitable or have the seeding come just when the amount of readily available plant this late sowing must be after sweet food resources the crop has to draw corn and beans. We will have a chance to see which does best this

Sweet Corn.

I am somewhat disappointed in the gives us \$24 per acre for the ears and Approximately speaking, general we have the stalks for the silo. The This is an excellent practice, particularly and other European countries, raise farming in this state is divided into returns are a little better than that there is danger of loss from erosion more than twice as much wheat per two classes, the stock and stockless for we have the husks and trimmings not advisable on level ground which that the European farmers are mak- practicable and successful. The farm- from the factory they brought a load wheat as the farmers of the United should acquaint himself with the fun- nice lot of silage, and is well worth There are many items relating to States. Attention is never called to damental principles involved in in the hauling, especially when the teams

The third cutting of alfalfa is just

Lima Beans.

herd heavily on such feeds as oil and drowned out by excessive rains and

Hill Selection for Potato Improvement. which had been in use for some time required a reboring of the cylinder,

country are necessarily grown sized potatoes. where, and since the drouth has caused such a shortage in the potato crop of notice is whether the seed potatoes commercial potato field. are red or white. Michigan has a One of the worst drawbacks of this the Methodist church to give expreschance to make a still greater repu- selection is that the potatoes must us- sion to. A little investigation at the

Per Cent in Five Years.

of Indiana and Illinois, Michigan will this point. Several years ago a prombut practically the same size, required be called upon to furnish a large inent Michigan potato grower began similar treatment and the new blank amount of potatoes for next year's to practice hill selection. He selected for the piston was procured of the planting. The price which these will for seed, tubers coming from hills manufacturers of this engine at a cost bring will be somewhat dependent up- which contained six or more market- of 30 cents and charges. The present on the way they were selected and able tubers with no culls. The first season these same engines both broke the freedom of the field from fungous season he found only 17 hills out of a their crank shafts, the one with lower diseases. The men who grow pota- hundred that came up to the standard costs first. For this one the charge toes as a truck crop in the south al- he had set. The seed from these was was \$4.00 for the new shaft. When ways send north for their seed at fre- planted in a small lot apart from the the other one broke a new one was quent intervals. This is usually done other potatoes, and in five years the ordered and a remittance of \$5.00 was each year. On account of the differ- type of the potatoes had so changed sent with the order, with the expectaence between the northern and south- that 70 hills out of every hundred con- tion that this should cover the cost ern climates, and that the growing tained six marketable tubers with lit- price. When the part came, however, season is so much shorter, northern-tle waste. The amount of waste had it had a C. O. D. charge of \$3.70 more grown seed will mature a week or ten been reduced—conservation of plant attached. Probably in either case \$2 days earlier than the southern-grown food and labor had been accomplished. to \$2.50 would have afforded a reaseed. One of the weakest points in One grower in Wisconsin has been sonable profit. some of the potato growing sections able to materially increase his yields And in such cases it is not altogethof Michigan is the carelessness in by hand-digging the best portions of er the amount of money involved in choosing a good grade of seed for the field and saving seed from the transaction that is most signifi-planting at home, and this means that most prolific and desirable hills. cant. The wear and tear on one's sen-a poor class of seed will be eventually Wherever tried, this method of hill sitive nerves is a matter of no small sent to other parts of the country. selection has not failed to give great- moment. Such holdups, after patron-In some localities, the growers do not er crops. The second year the select- izing those concerns and the repairs pay any attention to varieties at all, ed seed may be planted by itself and become an absolute necessity, provoke and the point that is deemed worthy the seed produced gives seed for the suggestions not considered quite law-

which had been in use for some time | and, of course, a new piston was LL the seed potatoes used in the containing a large proportion of good needed. One was secured of the manufacturers of the engine at a cost of in the northern states some- Hill Selection Increased the Yield 350 \$1.50 and express charges, just for the bare casting without any machining. But we do not have to theorize on Later another engine of another make

ful or consistent for a good deacon in tation for herself along the potato ually be dug by hand. However, if start, before making the purchase,

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line by practicing a little better meth- the hills are far enough apart, one may be the means of guarding against Some growers are successfully keep- good results as hand digging. ing up the standard of the old reliable sorts of potatoes and even increasing cle on "The Cost of a Crop" that he crank shaft, and of five times that of their prolificacy by proper selection of took 75 cents worth of time to select the other for the piston blank. Manseed.

Selecting the Seed.

ing seed from the most productive lection. hills, or those hills which gave the largest amount of merchantable potatoes. The logical unit of selection to strong qualities potato is the hill and not the single tuber. There may be freaks in some families but as a general rule, the progeny will follow the natural ten- machinery to any extent may do well of prudence. dencies of the parents. There is a to look out for those makes which are wide difference between individual reasonable in their charges for rehills of potatoes. One hill may con- pairs. Dealers should have catalogs tain seven or eight good tubers of giving the prices for the various parts we must give sufficient attention to marketable size, while the hill next it and a little foresight in looking out each branch and see that our general may have 16 or 17 cull potatoes with for this matter may prevent a severe scheme of farming eliminates every only a single tuber large enough to "sting" later when repairs may be little leak, no matter how small that market. This large tuber would, if needed. planted, throw a hill of small potatoes The writer has had some severe ilwhile a seed from the hill containing luminators of late, and some of his seven or eight sizable tubers would experiences may be instructive to oth- to May 1, 1915, for only 25 cents. This be quite likely to produce another hill ers. Not very long ago a gas engine is for new subscribers only.

ods of seed selection. The standard can tell the most productive ones by severe temptations. There is no danvarieties must have better care in or- following in the wake of the digger, ger of any manufacturer making too der to hold their place on the market. This, however, does not give quite so low a charge, but in this case one

his seed potatoes, and judging by the ufacturers who have so little considplant food removed from the soil, he eration for their patrons and custom-Two state experiment stations first had a much larger yield than did ers that they do not scruple to pracshowed that the yield of potatoes either Mr. Hedrick or Mr. Peck, both tice such hold-up games on them afcould be greatly increased by select- of whom practiced little, if any, se-

Ingham Co. I. J. MATTHEWS.

the PRACTICAL POINTERS ON FARM EQUIPMENT.

made a charge of more than twice I noticed in Mr. Crum's recent arti- that of the other in the case of the ter they have them in their power, and the repairs become an absolute necessity, deserve a careful looking up and a severe letting alone. The wise man tells us that "the prudent man foreseeth the evil and hideth himself: but the simple pass on and are punished." And a few experiences like Farmers who have occasion to use those mentioned are stern begetters

> Allegan Co. EDW. HUTCHINS.

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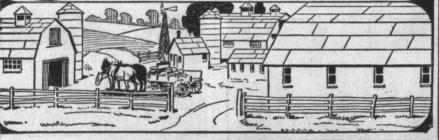
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Live Stock.

FEEDERS' PROBLEMS.

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We have on our farm this year, the following grains: Oats, peas, rye, speltz, and wheat. Also 200 tons of good corn ensilage, clover hay, wheat straw, oat straw and pea straw for feed. We also have sheep, cattle and young horses to winter, and sheep and cattle to fatten for market. I would like to have you advise us what would be a balanced ration: First, for fattening the sheep, one carload of lambs, and one carload of of old ewes for market. Also, fattening a carload of steers right off the grass for the market. Also, what you would consider a good growing ration for the sheep; yearlings, two-year-olds and cows, and one and two-year-old cattle for carrying over the winter.

Alcona Co.

G. S. F.

The questions asked in this inquiry

Tight for balancing the ration of the store cattle, sheep and horses, but the ration for the fattening animals, as above noted, would be improved by the addition of corn if it can be obtained at practically the same cost as the market value of the other grains mentioned.

Grain Ration for Small Pigs.

I have three litters of pigs. Will have very little separator milk by the time they are ready to use it. Have corn silage. What would be the best ration to keep them growing rapidly when old enough to eat?

Saginaw Co.

Subscriber.

Where separated milk is not available for young pigs, slop made of fine We have on our farm this year, the

are not easy to answer on account of middlings is the best feed for the basthe unusual character of the grains is of a ration. Other grains may be which it is desired to utilize in feed- used in limited amount to add variety ing this stock. Under present condi- to the ration, and a little feeding motions, however, the rye and wheat lasses would add to its palatability. would have too high a market value Not much corn should be fed until the to be profitably utilized in this way pigs get some age, when it should be and may be eliminated from consid- supplemented with protein feed, such

Speltz, or "emmer," as it is more not a suitable pig feed. properly called, is a grain which comproperly called, is a grain which compares very closely to barley in its feeding value, except that it is a still more bulky grain and contains a somewhat higher proportion of fiber. Authentic feeding experiments with this grain are not numerous, nor do they all point to the same conclusion. At the South Dakota Experiment Station about one-third larger gains were secured from a given weight of barley than from speltz or emmer, and Rye as a Hog Feed.

In what shape is the best to feed them after penning them up to fatten, rye being the only grain? Also, when I feed my rye all up what is the best grain to buy to feed them, or would wheat be as cheap as anything for them, considering its feed value? Also, where will a hog gain the most, in clover with grain or penned up with all the grain they can eat?

In what shape is the best to feed them after penning them up to fatten, rye being the only grain? Also, when I feed my rive all up what is the best tropent in the only grain? Also, when I feed my rive all up what is the best grain to buy to feed them, or would wheat be as cheap as anything for them, considering its feed value? Also, where will a hog gain the most, in the only grain? Also, when I feed my rive all up what is the best to feed them after penning them up to fatten, rye being the only grain? Also, when I feed my rive all up what is the best to feed them after penning them up to fatten, rye being the only grain? Also, when I feed my rive all up what is the best grain the only grain? Also, when I feed my rive all up what is the best to feed them after penning them up to fatten, rye being the only grain? Also, when I feed my rive all up what is the best to feed them after penning them up to fatten, rye being the only grain? Also, when I feed my rive all up what is the best to penning them up to fatten, rye being the only grain? Also, when I feed my rive all up what is the best grain the only grain? ley than from speltz or emmer, and it was found that the ration was greatly improved by mixing corn with this grain. At the Colorado Experiment Station where the grain was fed with alfalfa, the speltz or emmer gave as good returns, pound for pound, as corn, and 13 per cent better results than barley.

With plenty of ensilage, it would be good economy to use about two pounds per day per head in fattening sheep and lambs, feeding with it from one to one and a half pounds of grain, using the speltz as a basis and mixing oats and peas with same, provided they have rat a greater market value than corn in the locality where the feeding is done. As a roughage ration, the clover hay would be most suitable for the lambs, and the pea straw could be utilized to good advantage for the sheep.

In fattening the steers, if the feed-

In fattening the steers, if the feeding is done on pasture, a similar mixture of grain could be used to advantage, but here again the ration would be improved by the addition of corn.

The maximum ration which it would be profitable to feed, would depend inpon the age and character of the cattle, and the finish which it is considered profitable to put on them before marketing. In any event, if the feeding period is to be short, they should be gotten onto nearly full feed within a month or six weeks from the start. Sheep which are to be carried over winter may be profitably fed a limited amount of silage and a little grain ration with the coarser roughage mentioned. If they are large sheep, from one-quarter to one-half pound of mixed grain might profitably be fed, depending on their condition.

Young cattle which are being carried over winter can be fed very largely on corn silage, and with a little of the coarser roughage by way of variety and a very moderate grain ration, while the ration fed to the cows should depend altogether upon the

tion, while the ration fed to the cows should depend altogether upon the purpose for which they are being kept. If used for dairy purposes, they should have a far more liberal ration than if being carried over for stallion, 3 yrs, Glaucus, Anderson. 1st; Harry, Anderson, 2nd; Brilliant, Anderson 3rd. Champ. Stallion bred by Exhibitor, Glaucus, Anderson. Reserve—Harry, Anderson. (Continued on page 293).

the purpose of raising calves on grass next year. The combination of grains mentioned would give excellent results for dairy cows, and would be all right for balancing the ration of the

The questions asked in this inquiry able for young pigs, slop made of fine as tankage, peas, etc. Corn silage is

Rye as a Hog Feed.

Rye should be ground and made into a slop for pigs, and will make an excellent grain to supplement a clover pasture. Rye is not as suitable as the sole grain in the ration when pigs are being fattened, although it can be so used with fair satisfaction. Corn is undoubtedly the best single grain for fattening hogs, and at present prices would be more economical than wheat, being of slightly greater feeding value pound for pound. Hogs will make more economical gains in clover pasture with a moderate grain ration than when on an all-grain diet, but they will make faster gains during the fattening period when closely confined ad fed on corn alone.

LIVE STOCK AWARDS AT THE STATE FAIR.

HORSES. Percherons.

Horticulture.

FALL SETTING OF STRAWBER. All other orchard operations could be RIES.

ity or feasibility of fall setting of the

The question of setting a strawberusually by the novice. The commersetting; that is, where the purpose is tion. to establish a new fruiting bed. If

neglected but if spraying was done thoroughly you would have clean fruit A few days ago a reader of the but if all other orchard operations Michigan Farmer called at out farm were thoroughly done, and spraying to see our strawberries and get some improperly done, or neglected, the information upon growing them. He fruit would be imperfect. Not doing said he had been reading our writings the spraying thoroughly enough is the in the paper and had become interest- most common cause of poor results ed in strawberries and was planning from spraying. Many do not realize to set out a bed. Among the quest that it is necessary to cover every tions he discussed was the desirabil- part of the tree and fruit with spray to get good results. Not getting the spraying done in time is also a common cause of unsatisfactory results. ry bed in the fall is often brought up, The proper time varies with the season and sometimes the best of fruitcial grower of experience never sets growers will miss it a little on this out a field to strawberries at any oth- account. The proper materials are, er time of year than the spring, and of course, also necessary. These are just as early in the season as possible, consistent with efficient, proper in bulletins from the experiment sta-

There is a lot of truth in the old the object is to establish a small gar- saying that one should prune when den bed for the family use, this is a the knife is sharp, and unless there is different matter. Where one has ac- an excessive amount of watersprouts cess to good plants, and especially in the trees it is not injurious to cut where some soil is removed with the them out now. Spring is the best plants, strawberry plants may be set time for pruning, as at that time the in the month of September with good wounds heal up most quickly. If the success, providing there is sufficient trees are making excessive growth a



Horticultural Show at the State Fair.

of the following season's crop. Then, sprouts are cut out now. too, early and frequent cultivation is required to secure proper growth and filling in with new plants, and under such conditions the ripening fruit earth. For commercial purposes the plan is entirely unpractical, and for practical grower. In the hurry and farmer. In a case of this kind it is appetizing of fruit the next year.

M. N. EDGERTON. Emmet Co.

· TROUBLE DEPARTMENT.

I have a young apple orchard about 15 years old, in which the fruit is very imperfect, although we have used the modern methods of growing fruit. There are also some watersprouts in the trees which are growing and sapping them. Should they be cut out immediately or left until the fall or spring?

Wayne Co.

Wayne Co. Mrs. J. W. perfect would indicate that there was help the cabbage grow. something wrong with your spraying.

moisture present to secure prompt pruning early in July is good, as there and vigorous rooting. From such a is not likely to be any new growth bed, a considerable quantity of fruit start as the results of cutting out the may be expected the following sea- old. There is also little danger of resons, but this will be at the expense curring growth if just the water-

ADVANTAGES OF THINNING.

An experiment made recently by would necessarily become soiled with the Utah Station calls attention to the importance of thinning the fruit as a means of producing the maximum this reason is never followed by the number of first-class apples. Eightvear-old Ben Davis trees, with the rush of spring work, the matter of fruit thinned to a minimum distance setting out a strawberry bed is very of four inches apart gave a net inapt to be neglected by the average crease per tree of \$1.15 as compared with unthinned fruit. The Jonathans better to set out a bed of strawberry showed a net increase of 30 cents per plants in the fall so that the farm tree. The same Jonathan trees thintable may be supplied with this most ned in the same manner in 1912 gave a net increase of 71 cents per over unthinned trees. In practice the cost of thinning appears to be offset by the reduced cost in sorting when the fruit is packed.

sprinkling as often as the worms made The fact that your apples are im- an appearance. The salt will also

M. A. DUNNING. Clinton Co.



Cattle or Horse hide, Calf, Dog, Deer or any kind of skin with hair or fur on, We tan and finish them right; make them into coats (for men and women), robes, rugs or gloves when ordered. Your fur goods will cost you less than to buy them, and be worth more. Our liustrated catalog gives a lot of information which every stock raiser should have, but we never send out this valuable book except upon request. Ittells how to take off and care for hides; how and when we pay the freight both ways; about our safe dyeing process which is a tremendous advantage to the customer, especially on horse

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arge or small ordered prompt attention Struthers Cooperage Co.



RHODES DOUBLE OUT

READ THIS The Department of Soils of M. A. C. reports that the roots of a maximum crop of red clover in one acre of ground contains as much nitrogen as would be added to the soil by an application of 7 tons of barnyard manure. If the soil contains acid a maximum crop of clover cannot be grown.

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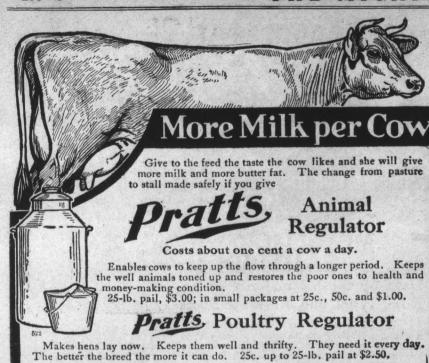
SEED WHEAT. GOEING WHEAT-A bearded variety of red wheat. Splendid yields, very hardy, stiff straw, never lodges. The best wheat I ever grew. Send for sample and prices.
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to dairy farmers. Because dairy farmers can folks. In addition to the beauty of the light, get even more out of an Acetylene installation it brings even a greater convenience in the gas than anybody

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They also equip these lights with ignition devices-to make them light with the pull of a chain without matches.

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CONDUCTED BY COLON C. LILLIE.

THE STATE FAIR MILK CONTEST.

At the recent State Fair a four days' milk production contest was held, in which two cows of each of three special purpose dairy breeds were entered, namely, two Jerseys from the herd of E. S. George, of Detroit, two Brown Swiss entered respectively by H. W. Ayres, Wisconsin, and Hull Bros., of Ohio, and two Gurnseys entered by John Ebels, of roughage. Holland, Mich.

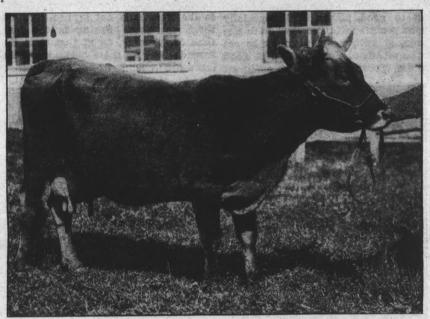
While a production contest of this the individuals entered, or the breeds Which they represent, or even the rations which are fed, yet a test of this

Perhaps the most interesting feature of this contest is the variation in the fat content of the milk given by the contestants, particularly by the winning cow. Very many dairymen are inclined to question the accuracy of tests which show a widely varying content of fat in the milk of a given cow, but as these tests were conducted under the direction of a representative of the Dairy Division of the Agricultural College, their accuracy is properly vouched for.

GRAIN TO FEED WITH CORN SIL-AGE AND STOVER.

As I have my silo filled with very rich silage I wish you would tell me what grain ration would be best to give my cows, with corn stover as

Newaygo Co. H. H. The fact that your silage was from kind is not of great value in deter- very heavily eared, well-matured corn mining the relative economic value of scarcely changes the idea of balancing the ration. The corn plant is not a balanced food. It contains carbohydrates in excess, and therefore you kind will afford some interesting com- should feed a grain ration rich in proparisons to the general dairyman. The tein. The most economical ration that winner in the contest was the Jersey you could feed would be cottonseed cow Majesty's Crocus, shown in the meal. I don't like to feed cottonseed first page cut. During the test this meal alone, because it is such a concow was fed a daily ration made up of centrated food and it would be better



Brown Swiss Cow, Crocus A., Second Prize Winner in State Fair Contest.

20 lbs. of alfalfa, 10 lbs. of unicorn if you could mix the cottonseed meal during the test:

feed, three pounds of oats, at a cost with wheat or ground oats. That is, of 38.25 cents per day. The following feed a portion of the ration, wheat table is a record of her performance bran and ground oats. This need not necessarily be mixed in. As a matter

1st.	2nd.	3rd.	4th.
Milk, pounds39.4	34.8	32.6	29.5
Per cent of fat 5.43	5.52	6.27	5.85
Pounds of fat 2.141	1.923	2.043	1.72
Value of product7554	.6735	.7033	.5981
Cost	.3825	.3825	.3825
Net profit3729	.2910	.3208	.2156
Total			\$1.2003

during the test:

The second prize winner in the con- of fact, it is better to feed the cottontest was the Brown Swiss cow Crocus seed meal separately, sprinkled over A, shown in the accompanying cut. the ensilage. Then you can feed the This cow was fed a daily ration of 15 ground oats, wheat bran or anything lbs. of mixed hay, 6% lbs. of bran, of that sort as a part of the ration. three pounds of royal meal, at a cost From two to four pounds of cottonof 32.68 cents per day. The following seed meal per day, beginning with a table is a result of her performance small amount and gradually increasing, with the corn silage and clover

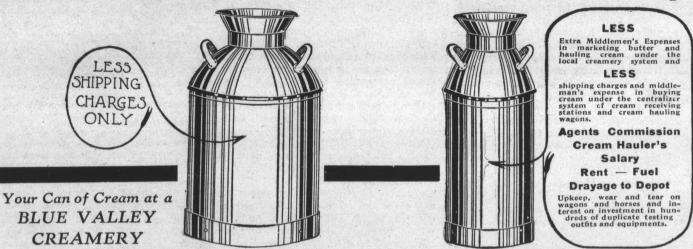
Milk, pounds38.4	2nd. 34.9	3rd. 33.7	4th. 31.0
Per cent of fat 4.1	4.2	3.95	4.15
Pounds of fat 1.574	1.467 .5314	1.332	1.289
Value of product572 Cost	.2258	.2258	.2258
Net profit3460	.3056	.2603	.2411

the different rations were fed to the monotonous. different cows with different individualities makes a comparison of the economic production, of little value. is for new subscribers only.

It will be noted that both of these hay, would make you a good ration. cows shrunk materially in their milk If you could add wheat bran or ground flow during the four-day period of the oats it would be better yet. The only contest. This was true of every indi- trouble with your roughage is that it vidual entered save one of the Guern- lacks variety. It is simply corn, corn, seys, which indicates that the cows corn. If you could only have some were not fed a ration which satisfied hay or a feed of oat straw, but simply their maximum requirements for nor- cornstalks morning, noon and night, mal production. Also, the fact that and corn silage twice a day, gets

Subscribe for the Michigan Farmer rations used, from a standpoint of to May 1, 1915, for only 25 cents. This

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We are in a position to pay you more money because we save the expenses of the middleman system and add it to your cream check. Ours is a direct-from-farmer-to-creamery-proposition. No middlemen of any kind. No cream receiving stations. No cream wagon hauling routes. No commission men. No traveling men. You ship your own cream and we send you the cash for each shipment.

Isn't that just what you do with your hogs if the local hog buyer dosen't treat you right? Don't you bunch with your neighbor and ship a carload? We use Uncle Sam as our traveling man and we keep in constant touch with one another.

The average price paid for butterfat under the Blue Valley Hand Separator Shipping System is higher than the average price paid under any other creamery system! We will mail literature comparing prices paid under different creamery systems, the figures being taken from official state reports.

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Besides cutting out all these middlemen expenses we get a quality of cream under our direct shipping system which enables us to make the best butter. It is sold in Blue Valley Trademark packages in the big cities of the country at higher prices than ordinary butter sells for and the farmer gets the cash difference.

We are constantly turning money from the big cities back to the country. We get the money from the consumer in the big city and put it direct into the pocket of the farmer in the country. We help to build up your community more than your local middleman because we turn more money into your community and put the difference right into your own pocket.

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Blue Valley creameries are located in wholesale market centers where there are a number of railroads, thus enabling each creamery to get a large volume of cream within a reasonable shipping distance and serve a large number of cream producers. Creameries are located at Chicago, Ill., St. Joseph, Mo., Indianapolis, Ind., Sioux City, Ia., Detroit, Mich., Grand Rapids, Mich., Hastings, Neb., Parsons, Kan., Springfield, Ill., Clinton, Ill., Cedar Rapids, Ia. Ours is a business creamery system built up to meet hand separator conditions, thereby paying highest prices for cream. Yours truly,

BLUE VALLEY CREAMERY COMPANY

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OUR GUARANTEE

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Cream is always shipped by baggage or express and low shipping rates have been fixed for 5, 8 and 10 gallon cans. The shipping charge includes the return of your empty can. Ask your local express agent or railroad agent about rates to our nearest creamery. If he can't give you the rates just drop us a postal card and we will see that he is informed. Our wagons meet all trains. Ship on any train that carries express or baggage.

Write for printed shipping tags or use an ordinary shipping tag and address it to the nearest Blue Valley Creamery. Be sure your name and address is on the tag and turn the can over to the transportation company. We will do the rest.

Write today, for our handsomely illustrated and interesting short story, entitled, "The Fable of the Cow." It is free for the asking.

Ship a can of cream to us today and try the Blue Valley System. Address our nearest creamery.

∠Use the Attached Coupon

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Gentlemen:—Send me Free, copy of "To of the Cow."	he Fable
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Address	
Rural F. D. Route	

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Harvesting the Late Potato Crop. -A brief consideration of methods used and needed preparations for the work.....273 Does Better Farming Pay?-A weighing of the relations between increased returns and increased cost of production will determine274

Hill Selection for Potato Improvement.-Examples of results attained by the hill selection method and reasons therefor......275

Fall Setting of Strawberries .-Some reasons why this method is best for the farmer if not for the commercial grower......277

The Country Home.—A discussion of modern improvements from the standpoint of their advantage in the country home.....286 The Sugar Situation.—Comments

on the consumption of sugar in the United States and sources of supply287 The Bean Crop and Quoted Prices.

-Interesting side lights on the bean situation at the present Preparing Bees for Winter.—A practical discussion of the dif-

ferent methods of wintering the swarms292

CURRENT COMMENT.

The Michigan Farmer reports from New York indicate a of wisdom for Michigan bean growers charge excessive interest rates. somewhat similar condition in that to market their crop conservatively The Lawrence Publishing Co. state, so that with old stocks well this year. A careful consideration of and should accomplish beneficial recleaned up at advanced prices soon the wholly legitimate factors which sults. If a similar "club" could be after the outbreak of the European will enter into the market this year held over state banks in Michigan it war, and with the practical certainty also points to the same conclusion, would be a wholesome influence, that few, if any, European beans will On account of the generally unsettled Viewed from the standpoint of the avbe imported to compete with our pro- conditions, money is being closely erage business man, the average bankduct during the coming year, growers held at the present time, and many er is not much given to "patriotism" have a right to figure on considerably bean dealers will find it difficult to in the matter of helping the business better prices for their bean crop than finance operations on their usual scale situation when help is most needed. they have received in recent years, for the simple reason that their bank-Other things being equal, a shorter ers will not loan them the money. crop and an increased demand will This means that if prices are to be crop and an increased demand will this means that a maximum level a naturally bring about this result, so maintained at their maximum level a perate fighting has continued throughwith our present indications pointing larger percentage than usual of the toward a shortened yield, a careful Michigan bean crop must be held for study of all conditions which may be a time in original hands, to be sold as the market will take them for immediate the continued through out the past week, the positions occupied by the different armies have changed but little. In Prussia where the Germans and Russians are manning the market will take them for immediate their maximum level a perate fighting has continued through out the past week, the positions occupied by the different armies have changed but little. In Prussia where the graph of the past week, the positions occupied by the different armies have changed but little. In Prussia where the graph of the graph of the past week, the positions occupied by the different armies have changed but little. In Prussia where the graph of the gra

> opening of the market season, and if quality of the bean crop as more defiopening of the market season, and if a speculative control of the market were made to succeed it is apparent that different methods must necessarily be employed to that end. In another column of this issue appears a communication from a dealer in one of the important bean growing sections of the state, in which certain large operators are charged with an attempt to "bear" the bean market at the very start through the making of exceedingly low official quotations on beans for future delivery on the Detroit market. Pursuant to the outbreak of hostilities in Europe, what was left of last year's crop in dealers' hands was moved at a price around \$2.90 per bushel f. o. b. Michigan points. The communication above referred to, appearing in another column of this issue, contains the statement of which documentary proof is offered, that "the selling price at present on the eastern markets is \$2.50 to \$2.60 f. o. b. common Michigan points." At the same time beans are quoted in this market at \$2.25 for immediate shipment and \$2.95 for immediate shipme a speculative control of the market nite knowledge becomes available.

below previous estimates. Scattering conclusion that it would be the part that refuse reasonable credits

We never, unless through error, send The Michigan ing at the start the price quickly description being always due in advance, and sample copies always free. No bills will ever be sent should a subscription through error be continued after expiration.

Was, however, a general feeling sell at the market which on the

With Michigan's bean quoted in this market at \$2.25 for im- step was the publication of a "Black. The Bean Sit- harvest practically mediate shipment and \$2.15 for Octo- List " of National banks that are completed, and the per delivery. Advices from several im- "hoarding" reserves beyond the perthreshing season at portant bean counties indicate that centage which the secretary thinks hand, the situation as it relates to the farmers are getting \$2.25 per bushel "patriotic" under present conditions. crop and market prospects is one of for new beans at the local elevators. The published list of such banks inintense interest to a large class of The current Chicago quotations are cludes about 250 banks, located most-Michigan farmers. A careful review \$2.90@3.00 for choice hand-picked ly in the south and west, but includof the situation as revealed by our pea beans, and \$2.25@2.75 for com- ing three Michigan banks. This list special crop reporting service and mon. These prices are about compar- was based on reports to the compfield inspection in many bean-growing able with the eastern quotations and troller of the currency in answer to field inspection in many bean-growing sections indicates that earlier estimates of the probable yield have been altogether too high. The state crop report for September indicated 80 per last year's crop was finally cleaned the legal minimum being 15 per cent. The Michigan banks are the first to be affected by the state, up would not be maintained with a similar from 27 per cent to 33 per cent to 33 per cent manual manu but more recent advices from many new crop of uncertain yield, but for from 27 per cent to 33 per cent in re- manner. counties in the state make it appear which crop statistics gave good promserves. The secretary takes the certain that the condition of the crop ise, just ready to come on the mar- ground that if the large amount of railroad rate question case for one has declined during the month which ket, since the history of the bean mar- inactive funds piled up in banks was month. has elapsed since the observations on which that report was based were taken. Harvest reports from many sections indicate that the crop did not it may be predicted with some degree of confidence that the October report and threshing reports which will soon begin to come in will place our bean crop for the current year many points which will soon begin to come in will place our bean to make the first device of the crop has been that a invested in commercial or agricultural paper, or loaned on proper security the present situation would be greatly the present situation would be greatly the present situation would be greatly of Santiago, and landed the first devance of "patriotism" on the paper, or loaned on proper security the present situation would be greatly of Santiago, and landed the first devance of "patriotism" on the paper, or loaned on proper security the present situation would be greatly of Santiago, and landed the first devance of "patriotism" on the lication of further black lists as circumstances may require, and by withholding future issues of currency or holding future issues of currency or has elapsed since the observations on ket in former years has been that a invested in commercial or agricultural

This is a move in the right direction

HAPPENINGS OF THE WEEK.

study of all conditions which may be expected to influence the market will take them for immediate distribution.

Last year the bean market opened for the new crop at a fairly satisfactory figure, but with liberal marketing at the start the price quickly declined as the available supply in dealers' warehouses increased. There was, however, a general feeling among well informed growers and dealers who were frank enough to extend the market will take them for immediate the market will take them for immediate distribution.

Many farmers will not be in a position to hold their entire crop, as they will need the money which the beans will bring for immediate use. If it is impossible to secure needed money in any other way, they will be obliged to sell at the market, which, on the whole, will give them a fair return for the latter courtry the Russians have taken Przemysia and are now marching against Krakow. The German armies in East Prussia have been retermined. dealers who were frank enough to express an honest opinion, that the market would again advance as soon as stocks commenced to move toward the ultimate consumer. But an upward trend of prices was long in coming, the price of the commodity being represented by a long, downward curve for many months, due, it was freely charged by many dealers, to a speculative influence exerted on the market by the big operators in beans by methods which virtually gave them temporary control of the distributing market. Be that as it may, this downward market curve was similar, the market of the cond against future needs. In that case it will generally be more satisfactory to sell to the local dealer on the satisfactory to sell to the local dealer on the satisfactory to sell to the local dealer on the satisfactory to sell to the local dealer on the satisfactory to sell to the local dealer on the satisfactory to sell to the local dealer on the who will make the best bid, unless the found with the wholesale grocers of a nearby city or in smaller quantities on the banks of the Marne, Oise and Meuse rivers. Reports would indicate that the Kaiser's troops have been for Allies' left is not only forcing the German raiso assistant to turne needs. In that case it will generally be more satisfactory to sell to the local dealer on the who will make the best bid, unless the form and the Allies have been in advance. The great battle in France Germans and the Allies have been in advance. The great battle in France Germans and the Allies have been in advance. The great battle in france on the wow with unless the found with the wholesale grocers of a nearby city or in smaller quantities on the banks of the Marne, Oise and Meuse rivers. Reports would indicate that the Kaiser's troops have been for on the found with the wholesale grocers of a nearby city or in smaller quantities on the found with the retail grocers in adjacent towns. For inexperienced shippers though more marked, to that of immediately preceding years. This year readers the most accurate information

We shall undertake to give our this the Germans under General Von

Wery different conditions prevail at the possible regarding the Kluck are throwing heavy forces against the English and French. The Servians are reported to have taken the most important of the islands in the Save River near Belgrade. In a

sir James Whitney, premier of Ontario, died September 25, after a long illness. He was one of the Conservative leaders in the fight against the Reciprocity Treaty with the United States during President Taft's adminstration

National. The House of Representatives has approved the \$100,000,000 war revenue bill of the administration.

The Federal government has insti-

tuted a campaign designed to discourage banks from hoarding money. The Secretary of the Treasury has already begun the publication of lists of banks

Rear Admiral Herbert Winslow, U.

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 writtten especially for it, and does not appear elsewhere.

Wasted Agricultural Possibilities.

By LEMUEL LAWRENCE De BRA.

TRANGE, indeed, it must seem to the modern American farmer when he pauses in his study of commercial fertilizers and better farming methods and reflects on the startling fact that there is a land not far away where many farmers, instead of fertilizing, merely bury a wooden idol in each field, and where, on many farms, the same crops have been raismethods have been used for a thou-

That land is Mexico. It is a land of agricultural contrasts-where sleek cattle browse in lush pastures and indolent natives drowse in the shade and use imported canned milk; where in one field a young Mexicano with snappy, black eyes may be seen driving a team hitched to a modern steel plow and in the adjoining field an old, old Indian shuffles sleepily along between the bean rows, scratching the soil with a pronged stick; a land where prodigal nature, with lavish

hand, has caused to flourish every variety of vegetation found between the Arctic Ocean and the Equator, yet corn and beans constitute the principal diet and frequently not enough are raised to meet the requirements of home consumption.

'The merciful hand of Providence," says Lempriere, "has bestowed on the ing in resources of all kinds-a land where none ought to be poor, and where misery ought to be unknown-a land whose product and riches of every kind are abundant and as varied as they are rich. It is a land endowed to profusion with every gift that man can desire or envy, every sort of climate from perpetual snow to tropical heat—and inconceivable fertility."

Compare that with the unpleasant fact that most of the people are both poor and miserable, that out of the fifteen million inhabitants scarcely more than five thousand are land owners, and we naturally ask-what is the matter with Mexico?

The question partly answers itself. Most of the trouble in Mexico can be traced to the fact that the land is in the possession of between five and six thousand persons, which leaves the other millions little better than slaves.

The problem is really a deep-rooted one. Years ago when there were no transportation facilities such as exist in Mexico today, the Mexicans were ed haciendas, in order to raise everycannot get it. This has caused unrest from California. for many years and is at the bottom No doubt their archaic methods of distant.

til the land question is satisfactorily kind of a forked stick that their anadjusted.

factor in the production of farm pro- is not used. duce. Agriculture in that country is today in somewhat of a chaotic condipeaks are clothed with eternal snow, tion. Blessed with splendid climate lift their heads in the center of Mexi-

cestors used many centuries ago. And If peace can be restored, and some that story of the wooden idol is no arrangement made for cutting up the fairy tale. One-third of the populaimmense holdings and selling them to tion of Mexico are full-blooded Indithe people in small tracts, the future ans and many of them conscientiously of Mexico, from an agricultural stand- bury an idol in each field so the gods ed and the same primitive tools and point, will be exceptionally promising. will give them good crops. That is It will be many years, however, be- the nearest they ever come to using fore Mexico comes into her own as a fertilizers. Even the barnyard manure

The lofty Cordilleras, some of whose

Mexicans a magnificent land abound- Alfalfa Thrives Throughout Mexico but Primitive Methods Limit the Ecoing in resources of all kinds—a land nomic Uses to which the Plant is Put.



Corn is a Staple Article of Diet and Has Been Grown on Some fields for the Mexicans love. Its leaves are used to thatch houses. Molasses vines

of most of the trouble in that land farming are partly responsible for this of revolution. Regardless of how the condition. Unbelievable as it may of about 3,000 feet is what is known erage. present revolution is settled, and ir- seem, it is nevertheless true, that as the hot lands. Here is tropical In the hot lands of the coast, the respective of what form of govern- thousands of farmers in Mexico have climate and here grow all the pro- cocoanut tree is to the natives what ment is finally established, there will never seen a steel plow. They are ducts of the tropics: bananas, coffee, the maguey is to the Mexicans of the be no permanent peace in Mexico un- scratching the ground with the same sugar cane, dye woods, cocoanut trees,

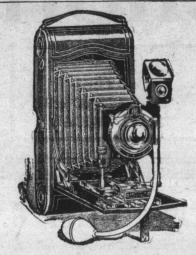
ducts, many with unpronounceable names, but all useful and valuable. Most of our binding twine now comes from the sisal plantations of Yucatan. The east coast is the richest and there have grown up such wealthy cities as Vera Cruz, Tampico, Merida, and Campeche. On the west coast the rainfall is not so dependable and the country is not so prosperous, although the cities of Guaymas, Mazatlan, Manzanillo, Acapulco, and Salinas Cruz are lively, bustling places. mate in the so-called hot lands is really delightful. The average temperature is eighty degrees F.

From an altitude of 3,000 up to about 6,500 feet, is the temperate climate, with an average yearly temperature of from seventy-three to seventy-seven, seldom varying more than six or eight degrees. Here is the finest Mexican climate. There are no sudden temperature changes. At some of the more favored spots in this section the trees take on their new spring leaves while still green with the verdure of the old year. There are no heavy frosts, and yet it is too cool for the many varieties of noxious Insects which infest the hot lands. Semitropical and tropical products flourish here, and sugar cane and wheat may be seen growing in adjoining fields.

From 6,500 feet up to the snowline is the cold country. It is cold only in comparison with the other sections. The temperature ranges from thirtyfive to seventy-five, and averages sixty. The climate is mild but invigorat-Mexico City lies in this section and here, too, are the world famous cactus plantations, rich mines, and cattle ranges.

Never heard of a cactus plantation? Excepting tobacco, it furnishes the poorer Mexicans of the highlands with everything they desire in life. There are nearly five hundred varieties of cacti growing on the great plateaus of Mexico, and they range from inisgnificant little creeping plants up to the magnificent and imposing Candelabra Cactus which often reaches the height of fifty feet. The species known as the maguey, and which we call the "Century Plant" in America, is the most valuable. Its roots are cooked for food and are also distilled to make a very fiery intoxicating liquor which ed to thatch houses. Molasses, vineobliged to cultivate large tracts, call- and rich soil, the country does not co like the ridge of a tent and slope gar, paper, twine, cloth, ropes, and raise enough to feed her own people. gradually on either side down to the many other valuable products are thing necessary for their own con- In 1912, over thirty million bushels of coast. Barely three hundred miles made from the maguey. And from sumption. With the building of rail- wheat, and considerably more than a separate the frozen mountain peaks its sap, the Mexican ferments pulque, roads and highways that need has million bushels of corn were imported from the steaming jungles along the the national drink of Mexico. It repassed, yet the owners of these vast from the United States. Many carcoast, and that stretch of land emsembles our beer; but only in certain ancestral estates cling to every acre loads of pork products, and even braces the tropical, semi-tropical, and respects, for in appearance, taste and as a matter of family pride. In many trainloads of live hogs are sent each temperate climates, and in which odor it resembles nothing under the cases they do not have the capital to year to Mexico by American firms. flourishes every sort of plant grown sun. Millions of dollars are invested work their entire holdings, even if There are no richer truck gardens in between the Arctic and the Equator. in the pulque business and it is one they needed to do so. Hence, it is the the world than those in the sunny The morning sun, rising out of the greatest agricultural industries old story of the "dog in the manger." Mexico valleys, yet the Mexicans buy Atlantic, shines at the same time on of Mexico. Long trains, loaded with The people who have land do not use any quantity of canned vegetables the banana and coffee plantations of nothing but pulque leave the great it and the poor people who want land from us, and they even import fruit Vera Cruz, and the winter wheat lands maguey plantations each morning and of the cold foot-hills only a few miles rush into the City of Mexico to supply the thirsty natives who spend an av-From the coast inland to an altitude erage of \$10,000 a day for the bev-

(Continued on page 283).



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Winston of the Prairie

BY HAROLD BINDLOSS.

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CHAPTER V .- (Concluded).

tily and yet as it were with a certain the horizon. deliberation in her direction.

erect, while his furs, which were to return to Silverdale. It has a charm suggested a uniform. He also were ally glad to get away from it, one is knee, and were presumably lined to again. It is a somewhat purposeless at that season would do, and scarcely the cities. I, of course, mean the a speck of dust marred their lustrous exterior, while as much of his face as squareness of the man's shoulders and rie farmers, and suggested the cavalry money." officer. He was, in fact, Colonel Barof the English community of Silverniece somewhat impatiently. Colonel into and swung out of a hollow. Barrington was invariably punctual had come in an hour later than it should have done.

"So you have come back to us. We have been longing for you, my dear," have done had they kept you in Montreal altogether."

Maud Barrington smiled, though was evident.

"Yes," she said, "I have come back. they were all kind to me, but I think, henceforward, I would sooner stay with you on the prairie."

he drew through his arm, and there they left the station and crossed the day. track towards a little, and by no tel. He stopped outside it.

she went into the hotel.

I wonder what is written on the rest," no taste for small economies. she said.

She fancied that his step was slower than it had been, and that he seemed

a trifle preoccupied and embarrassed, tween the present and the careless There was very little in their ap- but he spoke with quiet kindliness life she had lately led when her one pearance to attract the attention of a when he handed her into the waiting thought had been how to extract the young woman of Miss Barrington's sleigh, and the girl's spirits rose as upbringing. They had grave bronzed they swung smoothly northwards be- had frequently to grapple with the faces, and wore, for the most part, old hind two fast horses across the prai- problems arising from scanty finances fur coats stained here and there with rie. It stretched away before her, at Silverdale. soil, and their mittens and moccasins ridged here and there with a dusky were not in good repair; but there birch bluff or willow grove under a there anything else?" was a curious steadiness in their gaze vault of crystalline blue. The sun which vaguely suggested the slow that had no heat in it struck a silvery as he nodded. "There is, and while stubborn courage that upheld them glitter from the snow, and the trail I have not much expectation of an adthrough the strenuous effort and grim swept back to the horizon a sinuous self-denial of their toilsome lives. blue-gray smear, while the keen, dry ing over another affair lately. They were small wheat growers who cold and sense of swift motion set the had driven in to purchase provisions girls blood stirring. After all, it seemor inquire the price of grain, and here ed to her, there were worse lives than and there a mittened hand was raised those the western farmer led on the the near horse somewhat viciously to a well-worn cap, for the most of great levels under the frost and sun. with the whip. "He is also sufficient them recognized Miss Barrington of Colonel Barrington watched her with Silverdale Grange. She returned their a little gleam of approval in his eyes. greetings graciously, and then swung "You are not sorry to come back to herself from the platform, with a this and Silverdale?" he said, sweepsmile in her eyes, as a man came has- ing his mittened hand vaguely round dale?"

women."

straight nose, while something in the though I am afraid there is consider- spoke of him without bitterness." ably less prospect than I once fancied

His niece noticed the gravity in his story.' rington, founder and autocratic ruler face, and sat thoughtfully silent for

men with a grievance who had once for you." served their nation, and the younger found that lack of brains and capital Barrington. or military career. He had settled there was a brightness in her eyes them on the land, and taught them to and a faint warmth in her cheek, for farm, while, for the community prosthe sincerity of her uncle's welcome pered at first when western wheat ing and spent at least a third of their compete with the grim bushmen from

Colonel Barrington was slow to bemeans very comfortable, wooden ho- lieve that the race he sprang from who, I fancy, did not like the gardencould be equaled, and much less beat-He disappeared behind the wooden and left him a poorer man than he and lied with the assurance of an ambuilding, and his niece standing a mo- had been when he founded Silverdale. ment on the veranda watched the long Maud Barrington had been his ward, dener who was admonished cuffed the track that ran west to the farthest a good many acres of wheat land somewhat instructive memories." verge of the great white wilderness. which she now held in her own right. and there is no use looking back, but revenue, but Colonel Barrington had me?"

ing."

Barrington sighed a little. "Hard

wheat is five cents down, and I am sorry I persuaded you to hold your crop. I am very much afraid we shall see the balance the wrong side again next year.

Maud Barrington smiled curiously. There was no great cause for merriment in the information given her, but it emphasized the contrast begreatest pleasure from the day. One

"It will go up again," she said. "Is

Barrington's face grew a trifle grim vance in prices, I have been worry-

His niece regarded him steadily. "You mean Lance Courthorne?"

"Yes," said Barrington, who flicked to cause any man with my responsibilities considerable anxiety.

Maud Barrington looked thoughtful. "You fancy he will come to Silver-

Barrington appeared to be express-"No," said the girl, with a little ing an inclination towards vigorous He was elderly, but held himself laugh. "At least, I shall not be sorry speech with some difficulty, and a little glint crept into his eyes. good, fitted him in a fashion which of its own, for while one is occasion- could by any means prevent it, the answer would be, No. As it is, you boots which reached half-way to the even more pleased to come home know that, while I founded it, Silverdale was one of Geoffrey Courthorne's resist the prairie cold, which few men life our friends are leading yonder in imperalistic schemes, and a good deal of the land was recorded in his name. That being so, he had every right to Barrington nodded. "And some of leave the best farm on it to the man was visible beneath the great fur cap the men! Well, we have room here he had disinherited, especially as was lean and commanding. Its sali- for the many who are going to the Lance will not get a penny of the ent features were the keen and some- devil in the old country for the lack English property. Still, I do not know what imperious gray eyes and long of something worth while to do, al- why he did so, because he never

"Yes," said the girl, while a little his pose set him apart from the prai- there would be of their making any flush crept into her face. "I was sorry for the old man. It was a painful

Colonel Barrington nodded. "It is several minutes while with the snow one that is best forgotten-and you do dale, and he had been awaiting his hissing beneath it the sleigh dipped not know it all. Still, the fact that the man may settle among us is not Colonel Barrington had founded the the worst. As you know, there was and resented the fact that the train Silverdale settlement ten years car- every reason to believe Geoffrey inlier and gathered about him other tended all his property at Silverdale

"I have much less right to it than sons of English gentlemen who had his son, and the colonial cure is not he said. "I don't know what we should no inclination for commerce, and infrequently efficacious," said Miss "Lance may, after all, debarred them from either a political quiet down and he must have some good qualities."

The colonel's smile was very grim. 'It is fifteen years since I saw him at Westham, and they were not much in was dear, it had taken ten years to evidence then. I can remember two bring home to him the fact that men little episodes, in which he figured. It was very pleasant in the city, and who dine ceremoniously each even- with painful distinctness, and one was the hanging of a terrier which had in time in games of sport, could not well some way displeased him. The beast was past assistance when I arrived on Colonel Barrington patted the hand Ontario, or the lean Dakota plowmen the scene, but the devilish pleasure in who ate their meals in ten minutes the lad's face sent a chill through me. was a very kindly smile in his eyes as and toiled at least twelve hours every In the other, the gardener's lad flung a stone at a blackbird on the wall above the vinery, and Master Lance, er's lad, flung one through the glass. "I want to see the horses put in and en, at anything, while his respect for Geoffrey, who was angry, but had not get our mail," he said. "Mrs. Jasper and scrupulous observance of insular seen what I saw, haled the boy before expects you and will have tea ready." traditions had cost him a good deal, him, and Lance looked him in the face bassador train roll away down the faint blur of and he still directed the farming of innocent lad. These, my dear, are

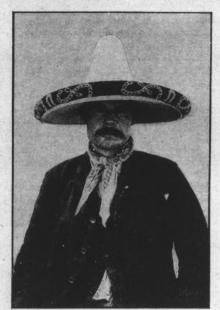
"I wonder," said Maud Barrington. Then with a little impatient gesture The soil was excellent, and would in glancing out across the prairie which all probability have provided one of was growing dusky now, "Why you "That is another leaf turned down, the Ontario men with a very desirable took the trouble to call them up for

The colonel smiled dryly. "I never "I want to hear all the news," said saw a Courthorne who could not catch Twenty minutes later she watched the girl. "You can begin at the be- a woman's eye, or had any undue dif-Colonel Barrington cross the street ginning-the price of wheat. I fancied fidence about making the most of the with a bundle of letters in his hand. when I saw you, it had been declin- fact, and that is partly why they have brought so much trouble on everybody (Continued on page 284).

A LAND OF WASTED AGRICUL-TURAL POSSIBILITIES.

(Continued from page 281).

palms sleepily nodding in the ocean's breezes are the first things of the tropics to greet the traveler's eyes, and they remain the longest in his memory. The trunks are sometimes year because they do not grow enough. two feet thick and they quite freery leaves. The nuts provide the industry. Mexican with food and drink and the



The Common Type of Mexican.

leaves are used for matting, clothing, bags, baskets, etc. Paper, dishes, spoons, and other valuable and useful things are procured from the noble cocoanut tree.

All the varieties of fruit you ever heard of, and a score of others which you have not, grow in Mexico but there is very little fruit-raising as we know it. Mexico needs a Burbank. fruit-growers familiar with modern methods. Poor fruit is a rule. The best fruit found on the city markets and the insects, are not so hardy. is imported from the United States.

Market gardening throughout Mexico is practically all in the hands of there is a large foreign population, paragus, etc., are shipped to Mexican cows, preferring to use canned milk cities from the United States.

Cotton is a staple product but they dred or more cotton mills going. We raising business, although it would every year.

are several modern flour mills in Mex- the owner gets tired of having them

ico where it is claimed that corn has been raised continuously for over a thousand years. The corn shown in the photograph herewith is supposed colder country. These lofty cocoanut to be the direct descendant of corn raised in that field long before Columbus was born. Corn is the main article of diet in Mexico and we ship them about a million bushels each

Alfalfa flourishes in all parts of quently reach the height of fifty feet, Mexico. In many places they grow bearing great clusters of cocoanuts two or three crops a year. Primitive amidst their crowning tufts of feath- methods of handling keep back this

> Pasturage is fairly good on the east coast and there are spots there where it is excellent the year around. On the west coast the rainfall is rather irregular. On the central plateaus it is very dry and pasturage is consequently very difficult to find at times.

Irrigation seems to be the hope of the country but the average Mexican farmer lacks the capital to put through any irrigation scheme. Lately the states, and even the federal government, itself, have taken an interest in the matter and when the present revolution broke out there were several big irrigation projects on foot. What land is now under irrigation is held at prohibitive prices.

Stock raising is a growing industry. The cattle and beef shortage in the United States has been a big boost for the business in Mexico. Each year many carloads of yearlings and twoyear-olds are shipped from the great cattle ranges of northern Mexico to our country, where we fatten them for market. A large number are also sent down to the pasture lands of the eastern coast to be fattened up for home consumption.

Mexican cattle are a peculiar breed. They are a mixture of the old bullfighting breeds imported from Spain and the Brown Swiss dairy animals. In the north, where they often have to travel long distances to find water and pasture, they are small and very First, however, she needs practical hardy. Farther south, and along the coast, where pasture is better, the cattle are larger, but owing to the heat

There is no dairying worth mentioning. Outside of the cities where the Indians. They use ancient meth- there is little demand for high-class ods and their vegetables are as free dairy products. What demand there from fine flavors as the Indians seem is exceeds the supply. Often the nato be of ambition. Canned peas, as tives are too indolent to milk the imported from the United States.

There has been considerable imdo not raise enough to keep their hun- provement in late years in the hog send Mexico a great deal of cotton still be more proper to say the hogs are simply allowed to grow up. They The same is true of wheat. There subsist mostly by foraging and when



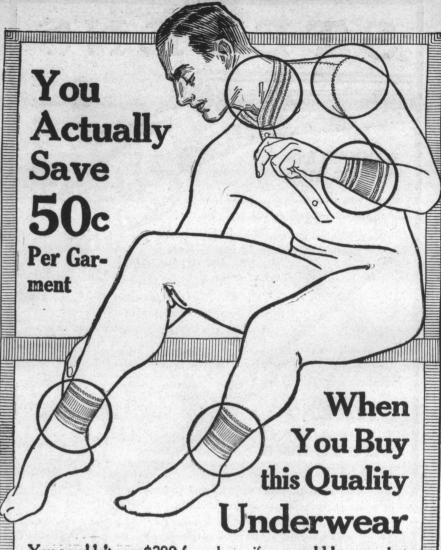
One of the Better Type of Ranch Homes. The Property of an American

ico, but the natives do not grow a around he sells them. Seventy-five per

Corn is the principal feed grown. ducts are well in demand. Mexico is supposed to be the original

sufficient quantity to meet the de-cent of the hogs marketed are used mands of home consumption and for lard because unfit for any other hence the United States is looked to purpose. The rest are consumed as for many millions of bushels every fresh pork. There is very little demand for bacon. American pork pro-

The wealthy Mexicans are natural home of Indian corn, such as we grow lovers of fine horses but as a rule no in our fields. There are fields in Mex- effort at horse raising is being made.



You wouldn't pay \$200 for a horse if you could buy one just as good for \$100. Then why pay \$1.00 per garment for underwear when "Hanes" costs only 50c per garment? It's just as good as—often superior to—underwear sold at twice the price.

Next time you're in town, take your wife along with you to size up "Hanes" Underwear—nobody like the women when it comes to judging quality in underwear.

50c per Garment

Union Suit

NDERWEAR

Notice the elastic collarette—can't gape at the neck. The improved, firmly knit cuffs that hug the wrist snugly and cannot flare out. Notice the special piece of cloth running across the wale to keep the shoulders from stretching and dropping down.

If our mills were not located in cotton land—if we did not buy our raw material in large quantities direct from the grower—if we didn't specialize on one grade of underwear only, "Hanes" would cost you \$1.00 a garment instead of 50c. Buy two or three suits of this warm, durable, elastic knit underwear—let "Hanes" see you through this winter hale, hearty and strong. Don't forget the low price—50c per garment, \$1.00 per union suit.

If you can't find the "Hanes" dealer in your town, be sure and write us.

P. H. HANES KNITTING CO., Winston-Salem, N. C.

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Given with small purchases through a Larkin Club.
Our New Fall Catalog shows plies, and the many hundred I saving, with them. There's a now. This does not commit a now to increase ws the 700 Larkin home sup-Larkin Premiums, given as a copy for You. Send for it t you to anything, beyond o the buying power of your ac Coupon now. Larkin Co. BUFFALO PEORIA

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a better pack animal.

their eyes.

keep the American settlers.

Some colonists have done well, but cal questions aggressively democratic. many have not. Most of the latter "My dear, I sometimes fancy I am ing to a strange country with strange sighed a little, while once more the the soil are quite different from what now I wish devoutly I was a better we raise. Those who have succeeded business man." finally, managed to last until they became acclimated and had learned and Miss Barrington watched the their bitter lessons. Where land can crimson sunset burn out low down on be bought it is usually very, very the prairie's western rim. Then the cheap, compared with the price of pale stars blinked out through the land in the United States. But when creeping dusk, and a great silence and we consider markets the difficulty of an utter cold settled down upon the securing satisfactory labor, and all the waste. The muffled thud of hoofs, risks and dangers of pioneering it in and the crunching beneath the sliding a new country, the proposition ap- steel seemed to intensify it, and there pears entirely different.

it takes the man of wide experience Then a coyote howled dolefully on a and mature judgment to see them. As distant bluff, and the girl shivered as time passes, things will grow better in Mexico, and no doubt after the furs. present war is settled there will be a great awakening.

Awakening! That's the word. Mexhabitants were better farmers than dale from the crest of the next rise." they are today. In opportunities, tory it is sadly old. There are trees yet their history, and even their antiquity. Says the poet:

WINSTON OF THE PRAIRIE.

(Continued from page 282). Nor do I know that it is only pity levels of the great white plain. which influences them. Some of you take an exasperating delight in picturesque rascality."

Miss Barrington laughed, and fear-

dear, plenty of them still."

deal to one of them."

The mule is more in demand because ranted, for, dogmatic, domineering, and vindictive as he was apt to be oc-From what has been set down above casionally, the words he had used apit will be seen that Mexico is badly in plied most fitly to Colonel Barrington. need of better stock, better methods His word at least had never been of farming, and better farmers. Most broken, and had he not adhered steadof the country is still in a last cen- fastly to his own rigid code, he would tury sleep, but in some spots the Mex-have been a good deal richer than he icans are sitting up and rubbing the was then. Nor did his little shorttag ends of pleasant dreams out of comings which were burlesqued virtues, and ludicrous now and then, American colonists are waking them greatly detract from the stamp of digup. In late years many American nity which, for speech was his worst farmers have been induced to go to point, sat well upon him. He was in-Mexico and settle. Great colonies nately conservative to the backbone, have been formed and every effort though since an ungrateful governmade by the Mexican government to ment had slighted him he had become an ardent Canadian, and in all politi-

failed to cosnider that they were go- a hypocritical old fogy!" he said, and customs, and where the products of anxious look crept into his face. "Just

Nothing more was said for a little was a suggestion of frozen brilliancy Opportunities there are aplenty; but in the sparkle flung back by the snow. she shrank down further amidst the

"Forty degrees of frost," said the colonel. "Perhaps more. This is very different from the cold of Montreal. ico is asleep. Centuries ago its in- Still, you'll see the nights of Silver-

It was, however, an hour before alone, is Mexico a new land; in his- they reached them, and Miss Barrington was almost frozen when the first centuries old, who roots feed on the square loghouse rose out of the praicrumbling ruins of great cities which rie. It and others that followed it, were apparently as rich and powerful flitted by, and then, flanked by a great as any modern city in Mexico today, birch bluff, with outlying barns, granaries, and stables looming black about names, are lost in the dim mists of it against a crystalline sky, Silverdale "World wrongly called the new! this clime was old
When first the Spaniard came, in search of gold.

Age after age its shadowy wings had spread.

And men was how and still a few to a joyous clamor, when the colonel reined in his term half are the stream of the stream half are the stream and the stream half are the stream half spread,
And man was born and gathered to the dead;.
Cities arose, ruled, dwindled to decay, risked frost-bite with his cap at his knee handed Miss Barrington from the sleigh and up the veranda star-o'er the field,
The stranger still to strangers doomed to yield.
Till to invading Europe bowed their

Till to invading Europe bowed their her limbs were stiff and almost pow-And pomp, art, power, with Monte-she passed into the drows warmth erless, and she gasped a little when and brightness of the great log-walled hall. The chilled blood surged back tingling to her skin, and swaying with a creeping faintness she found refuge connected with them. Further, it is in the arms of a gray-haired lady who unfortunate that women are not infre. stooped and kissed her gently. Then quently more inclined to be gracious the door swung to, and she was home to the sinner who repents, when it is again in the wooden grange of Silverworth his while, than they are to the dale, which stood far remote from any honest man who has done no wrong, civilization but its own on the frozen

CHAPTER VI. Anticipations.

T was late at night, and outside the lessly met her uncle's glance. "Then you don't believe in penitence?"

prairie lay white and utterly silent under the arctic cold, when Maud "Well," said the colonel dryly, "I Barrington, who glanced at it through m. I hope, a Christian man, but it the double windows, flung back the would be difficult to convince me that curtains with a little shiver, and turnthe gambler, cattle-thief, and whisky- ing towards the fire sat down on a runner who ruined every man and wo- little velvet footstool beside her aunt's man who trusted him will be admit- knee. She had shaken out the coils ted to the same place as clean-lived of lustrous brown hair which flowed English gentlemen. There are, my about her shoulders, glinting in the light of the shaded lamp, and it was Barrington spoke almost fiercely, with a little gesture of physical conand then flushed through his tan, tent she stretched her hands towards when the girl looking into his eyes the hearth. A crumbling birch log smiled a little. "Yes," she said, "I still gleamed redly amidst the feathcan believe it, because I owe a good ery ashes, but its effect was chiefly artistic, for no open fire could have The ring in the girl's voice belied dissipated the cold of the prairie, and the smile, and the speech was war- a big tiled stove, brought from Teutonic Minnesota, furnished the needful warmth.

The girl's face was partly in shadow, and her figure foreshadowed by her pose, which accentuated its rounded outline and concealed its willowy slenderness; but the broad white forehead and straight nose became visible when she moved her head a trifle, and a faintly humorous sparkle crept into the clear brown eyes. Possibly Maud Barrington looked her best just then, for the lower part of the pale-tinted face was a trifle too firm in its mod-(Concluded next week). eling.

THE FARMER AND THE STUMP.



Old stump! You at last the earth have left,
You clung to each clod and sod and cleft.

Upturned you lie, like a giant felled— Twas a hard won fight that saw you

quelled. Your tangled roots have cleaved to earth-To old Mother Nature who gave you birth.

Long years ago, 'ere the barons came And left of the trees but the stumps the name,

Cutting the pines with the saw so bold,
Changing the logs for the glitt'ring Changing gold;

You reared your head to the sunny High, high up, where the wild birds

hundred feet your head you Two

reared,
You sang your night wind song as
wierd. feathered branches gently

waved,
Yet many a boist'rous storm you
braved,

Where Nature's whisperings never

Where Nature's whisperings never cease
You lived, in the virgin forest peace.
Old forest guard! you never slept,
Full many a secret you have kept,
Of mated birds that builded nests
High in the highest trees' tall crests.
Close guard you stood o'er the Indian trail.
Far on the lake you saw a sail.

Far on the lake you saw a sail.
Under your shade there walked the
bear;

Never was seen the sunlight's glare Upon the ground; for your plumage wove

A mantle no sunny rays would move. A carpet of needles soft you spread For the feet of the many beasts that

Past to their haunts with a tread so light;
Or, stopped to quarrel a while, or

Soft with your neighbors you communed,

To Nature's chord was your will attuned. But man had need of your lumber

fine. Of the heart of the grand old forest

pine,
To build a house wherein to live,
So he took what the forest had to

So he took what the lorest had to give.

Into your heart with a sweeping clash Went the gleaming saw. With a rumbling crash You came to the ground. The sawyers' sang,

To the echoes clear the bright saw

Your heart they took to be stripped and planed

And only your plumes and this stump remained! This stump I've wrested from out the

No more a thing to be plowed around.

Leveled the earth where you stood

shall be

A growing crop where there stood a tree. You served your purpose. You gave

your best That man with your bounty might be blest.

A part you've been in Nature's plan
Of the forest timbered off by man.
So may I be. May I do my best
To make the world more happy. Blest
With the happy thought of a life well

spent
In helping others; a soul content.
And may I love and serve and fear
The God who made me and placed me here.

Six-40 HUDSON \$1,550

\$3,875,000 Paid Last Month For Hudsons

That is what users paid dealers last month for this new-model HUDSON Six-40: that is, they paid weekly, on the average, \$930,000. They bought the limit of our output-100 cars per day-and urged us to build cars faster.

The World's Record **Among Class Cars**

That is the record demand for a quality car. The HUDSON Six-40 now outsells any car in the world with a price above \$1,200.

HUDSON sales today are five times larger than last year at this time. Yet the HUDSON has long been a leading car. Such an increase as that—five-fold in one year—was never before made on a well-known car.

We trebled our output in July, when this 1915 model came out. But in 30 days we had 4,000 unfilled orders. Thousands of men-with other

cars plentiful—waited weeks for this HUDSON Six-40. No other car would do.

The Magic Model

You should see at once the new car which has wrought this magic. It has upset all the old ideals, and changed all former standards.

It is 1,000 pounds lighter than former cars of this size, yet never was a car more sturdy. A new-type motor saves about 30 per cent on fuel.

It brings out countless new attractions in beauty, comfort and convenience. And it costs you less than a class car ever before has cost.

The cars you know will seem crude in comparison. Go see the refinements which men so welcome in this new-day type of car.

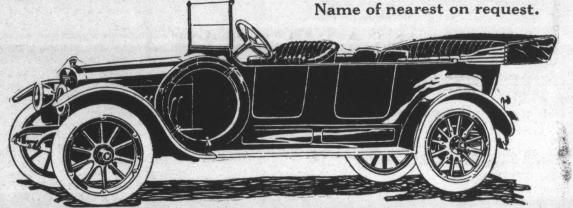
Due to Howard E. Coffin

This new-model car is due to Howard E. Coffin, the famous HUDSON designer. He has always led in advances. In this HUDSON Six-40 he reaches his climax—his finished ideal

He has worked for four years to perfect it. All the 47 other HUDSON engineers have worked with him. Now every part and detail show their final touch. You will never want a finer, lighter, handsomer car than this.

Go see it. If it suits you, get your new car now. The 1915 models are out now, so you know what's coming. And this is touring time. You have leisure now, and the coming months are perfect. Don't miss them. Your dealer will get you prompt delivery, even if the car has to come by express. To make prompt deliveries we have already shipped almost 1,000 cars by express-an unprecedented thing.

Hudson dealers are everywhere. Name of nearest on request.



with two extra disappearing Seats \$1,550 f. o. b. Detroit. Canadian Price: \$2,100 f. o. b. Detroit, Duty Paid.

Hudson Motor Car Company, 8308 Jefferson Ave., Detroit, Mich.



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It has been proven in numerous tests that the yearly cost of a wood post is about 5½ c, while a galvanized steel post costs about 1.85c per year. This is based on the average life of a wood post, which is seven years, and allowing a conservative estimate of twenty years for a galvanized steel post.

But all steel posts are not alike, so be sure you get the

T & T STEEL POSTS PATENTED

Made of best basic open hearth steel—galvanized after forming or special painted after forming, with all edges protected, which makes the T&T posts much longer-lived than any other steel post on the market.

The T&T post is driven, so it is not necessary to dig post holes, nor does it cut away or punch out any part of the ground, but the full strength and support of the ground is secured.

The T&T post is fire proof and lightning proof. It is ten times as strong as wood and requires no staples as the fastening lugs are a part of the post.

The T&T post is made in three ways:

Acid Proofed Galvanized.

Acid Proofed Galvanized.
Special Galvanized, coated with pure zinc.
Black painted, hand dipped.

T & T posts are made in various sizes and lengths according our requirements. They are shipped nested, which reduces the freight rate.

Write for booklet giving you full information and prices.

Tell us the nature of your soil, whether acid or stony, and we will tell you which of the three grades you should use.

We also make special end and corner posts which can be used with or without a setting in concrete.

Sooner or later you will come to metal fence posts—why not begin now, by investigating the T & T? Be sure to send for that booklet.

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Learn Auctioneering at WORLD'S GREATEST SCHOOL and become Independent. Winter term opens December 7th following International Stock Show, Class limited to 100 students. Write today for free catalogue. JONES NAT'L SCHOOL OF AUCTIONEERING, 28 N. Sacramento Blvd., Ohicago, Ill, Carey M. Jones, Pres.



Do the Corners of Your Mouth Turn Up? helped her out and in time she fixed er regretted the money spent on their smile became a really one. From home

ones, and the pleasant.

Not so often do we heard of unhap-The same will which draws down the corners of the lips could as easily draw them up, if so directed, and the miracle is worked.

Have you ever stopped to think of the moral obligation you owe your family and society, as regards the cor. mourn all the while? ners of your mouth? Don't you know it is a crime which should be punished by solitary confinement to go about with drooping mouth, when by exermake the corners quirk up pleasantly? No matter whether you feel pleasant or not, you have no right to go about shedding gloom over others, when the working of a few muscles could make them feel joyous. You know yourself how the sight of a smiling face makes you feel good, while a gloomy, cross countenance gives you the creeps. What right, then have you to make life harder for others, when such a little thing as a smile can ease things up so much?

The sunniest faced woman I know is a music teacher who, a year ago, was the gloomiest looking individual in Michigan, yes, or the whole U.S. A. I'll admit she had much to make her gloomy. Her husband failed in lower forty," said the man. "It will and plans and dreams. a way of making things easier for his wife. She was left with two children to support, and nothing but a musical petition was keen and her doleful countenance didn't help her much in getting pupils, for children like cheerful teachers. Life was certainly dark, and instead of trying to pick out a few bright things to think about, she dwelt constantly on her troubles, growing meanwhile more and more sour of face and acid of speech.

It was a dirty-faced street urchin who worked the miracle for her. She was walking up the avenue, after just having been politely told the children had decided on another teacher, (by way of parenthesis, why do the children decide, nowadays, instead of out over the fields, and a fireplace father and mother?), when she met a particularly grubby-faced ragged news-ter's evening with a few friends and that was where the young wife would boy. Always hating dirt, she scowled pop corn and eat apples and—" a little more deeply than usual, as the lad took her in with an impish grin. Her scowl, instead of abashing the youngster, evidently appealed to his sense of humor.

"Hello, lemons,' he shrilled at her, "Why don't you join the sunshine and-" club?" And he dodged up the street a blue ribbon. I've found the prize

ers. If she had grown so sour that to hers. even the newsboys noticed her looks,

famous artist who, with one whose patronage she sought? How Pupils were attracted to her because rounded have to do not only with our stroke of the brush could change must she appear to her own two little she looked happy, her class grew, and enjoyment of beauty but go deeper the portrait of a laughing child to a ones who had to spend their whole as success came to her, worry reced- and affect our habits and character as crying one. And, perhaps you've heard time in her society? Was it any won- ed and congenial work gradually well." of the equally famous mother who, der the children were beginning to drove out unhappy memories. The with one stroke of the slipper could want to be away from home as much miracle didn't happen in a day, nor ment is not over appreciated. It may work the same change in real life. as possible? Was it any wonder she without a hard struggle, but it came almost be said that what the home We've seen instances galore of laugh- found family after family deciding to about in time and repaid a hundred is, so the children will be." ing faces turned into sad or sullen take another teacher, even though fold. change is never that teacher hadn't half her ability py faces turned into happy ones, al- that, who cared for her sorrows? Indded, I've often thought that the though the change is so easily made. Come to think of it soberly, probably greater professions of goodness some the hereafter.

> work at first, to make her mouth turn theft really only harms two people. up instead of down. But a firm will

smile became a really one. From home. looking pleasant, she began to feel OU'VE all heard the story of the how must she appear to the people pleasant, for things came her way. home scenes with which we are sur-

and recommendations? Who did want that so many good people seem to tion, sanitation, sunlight, a nice lawn, "lemon" around and, more than all think it a duty to look sour or sad. and a big veranda. Be he the veriest everyone had troubles of their own. folks make, the crosser they look, as She had never been particularly anx- though goodness and smiles were in make a home. There must be a homeious to hear others complain, nor to some way incompatible. When you feeling. But that home-feeling does be with people who weren't cheerful. stop to think how good inside a warm not flourish any too well in an ugly Why should she expect anyone to seek smile from another makes you feel, box house with a stingy, rickety porch her society if she was to mope and and how sort of doleful and unhappy and dirt yard. The possession of mon-Right there on the street she re- gloomy face makes you, isn't it a character is priceless. And character solved to smile, no matter how she pretty good hint to you that we were develops best in a good home. felt. And although her first attempt meant to perk up and look cheerful? was a sorry affair she did force the Really, it's a greater wrong to look cising a little will power you could semblance of a smile to her face and cross than it is to steal, for a cross proceeded on her way. It was hard look robs everyone about, while the

THE COUNTRY HOME.

BY L. L. DE BRA.

matrimony.

When they had partially recovered ter themselves.

"We'll rig up the old cabin on my do until we can afford to build a big house of our own."

sure we can afford it."

bank; but he had intended using it to away off at one end. buy more land and a few more head

ly, "but-"

pretty yard, a small garden, a few to sit on it. flowers, and a nice, pleasant porch where we can sit evenings and talk brick fireplace, and a built-in bookand-"

"Yes, dear, but-"

yes, yes, my dear, but—"

roomy but handy kitchen with run- with water hauling. ning water, and a restful little parlor with a bookcase built in the wall, dubiously.

"Jeber Socks!" broke in the hus- none too good for the wife." shouting, "Ho, kids, somebody fetch band. "What kind of a house are you thinking of?"

saw herself as she appeared to oth- ears and gently pulled his face down each.

murmured. "I'm not thinking of a house at all. I'm thinking of a home!"

The man was a reasonable creature. Once upon a time, as all good stor- He thought of his own home. He reies begin, a certain man and a certain membered the plumbing they had almaid were joined in the holy bonds of ways done without; he remembered For globes as golden their places his mother bent sideways with the weight of a water pail. His home had from that delicious delirium known as been a home; but still there had been And when the brave vine by the frost "Honeymoonitis" and had learned something the matter with it. And was killed, that they were still on this cold and come to think of it, his father had alinhospitable earth, they began to ways talked of building a new place; think seriously about a house to shel- and it has never amounted to anything Then when Thanksgiving Day came more than talk.

So they went on a spree of books

First of all to be decided upon was the location. The cabin was near the Till circled by pie-crust, flaky and "But," mildly objected the young road but it was in a slight hollow. wife, "can't we have just a little house They fixed on a spot farther up the education which had been slipping built according to our own plans? I'm slope. Here they would be able to look over their fields from the big The young husband was thoughtful window. And besides, it would be in for a moment. The money was in the the middle of their acres instead of SHORT CUTS TO HOUSEKEEPING.

When it was all over there was a house-warming, of course. And the "Well, I guess so," he replied, final- house-warmers drove down a broad lane from the road to be greeted by "Just a cozy little cottage," persist- a white, hospitable-looking house with ed the young wife. "A place with a a large porch that fairly invited one

In the living-room was a big, roughcase already weighted with books. Back of that, through the folding "And a large window so we can look doors, was the dining-room with high wainscoting and two big windows. where we can gather 'round of a win- The kitchen, first of all, was light, for spend most of her time. The faucet above the open plumbing sink was

"It's expensive," said one visitor

"So it is," admitted the man, "but

The bedrooms were full of sunlight, as, indeed, all the rooms were, and will be discussed by notable persons. The young wife flashed him a happy the bathroom was placed between the

"Why, you poor, foolish man," she young wife had grown older they nev- en, of which it is an auxiliary.

It has been said, and wisely: "The

The importance of home environ-

All hail to the farmer who believes It has often seemed queer to me in plumbing, electric lights, ventilascoundrel, there is hope for him in

True, those things, alone, do not and dissatisfied with everything a ey may bring some satisfactionl; but

THE HUMBLE PUMPKIN.

BY ADELA S. CODY. Hidden among the stately corn A vine went cheerfully creeping, Gathering the dews of the golden Each day in its careful keeping.

On mats of its spotted leaves it set Big flower-bowls, gold in color, And kept on growing, and did not fret As daily the flowers grew duller.

filled-

stored with the summer's

fruit took the prize of the county.

apace, breezes with its spice grew And drunken,

Sugar and cinnamon, eggs and mace, And milk were tribute to pumpkin,

brown,
Moulded by fingers most able,
Of the gifts of the harvest a worthy
crown,

It adorned the Thanksgiving table.

A roll of paper with a string tied around the middle, so as to leave a loop to hang by, makes a good hanger for waists, light dresses, or children's clothes.

To make bluing get five cents worth of indelible blue at the drug store, put in a large bottle and fill with soft water. Keep filling with water as the bluing is used out. This makes enough to last an ordinary family two or three years and is much superior to the ordinary bluing .- D. L. M.

TOPICS FOR FARM WOMEN'S CONGRESS.

Mrs. Julian Heath, of New York, "And cheery bedrooms with large piped from a large supply tank. The President of the National Housewives' windows to let in the sun and air, a young wife would never tire her back League, will be one of the speakers at the fourth annual meeting of the Congress of Farm Women to be held in Wichita, Kansas, October 12-15. Home sanitation, hygiene, better schools, cooking, good roads and various subjects bearing upon rural home life

The annual meeting of the Interna-For the first time the little woman smile as she took the man by his two two largest, with doors opening into tional Farm Women's Press Association will be held at the same time and When the young husband and the place as the Congress of Farm Wom-

Practical Science.

THE SUGAR SITUATION.

BY FLOYD W. ROBISON.

the fact that lack of transportation sweet tooth. facilities has prevented the exportafor the prdouct a little later on.

is without doubt caused by the em- in war contributes anything to the bargo placed upon the exportation of prosperity of a country, but we must potash salts from Europe. The rise in attribute to one of the greatest wars the price of sugar likewise is un- of history, and credit to the most redoubtedly caused in part, at least, by nowned general of modern times the the difficulty with which this product inception of the sugar beet industry. is being imported from Europe.

United States Leads the World in Sugar Consumption.

States has become an enormous con- tons of beet sugar. The little counsumer of sugar. If one were called tries of Belgium and Holland together upon to guess as to the per capita produced approximately 500,000 tons; consumption of sugar in the United Austria, 1,710,000 tons; Russia, 1,750, States it would indeed be remarkable 000 tons, and Germany produced more if he could anywhere near give an es- than one-third of Europe's total suptimate of what this is. We have a ply, or 2,738,000 tons. This total propopulation in the United States of ap-duction of beet sugar, approximately proximately year's consumption of sugar, for all ference of Europe's war zone, may purposes, within the United States, give us something of an idea of why amounted to approximately 4,000,000 tons. This is 8,000,000,000 pounds of advanced in price. Unlike the potash sugar and means a consumption of situation, however, sugar can be, and about 80 pounds of sugar for each is produced in this country and the man, woman and child within the United States.

One is compelled to pause and think critical period of its existence. of such tremendous figures as these for it may be said that the consumption of sugar has been but recently removed from the columns of lux-

Sugar is a modern product and its everyday use dates not so far back as to be beyond the memory of many that are living now. It may be easily understood, when one realizes the tremendous grip which this food product this has upon the nation, that our pioneer agriculturists in this country were elated beyond measure when it was found that by the raising of sugar beets in the northern states, our farms production of sugar is concerned.

Where the Sugar Comes From. year imported fully one-fourth of the ter. total European supply of sugar.

The opinion is current among householders that there is a distinct difference between cane sugar and beet sugar. As a matter of fact, probably half of the granulated sugar which is sold in the United States is beet sugar, but refined beet sugar is just as wholesome and just as valuable as is cane sugar, and we do not believe the difference can be detected in the ordinary processes of consumption.

Cuba, Hawaii, and the Philippine Farmer.

Islands supply us with our largest amounts of cane sugar, but aside from this, fully as much is undoubtedly im-The American housewives, at this ported from Europe, and what we imperiod of the year, have become ac- port from Europe is not cane sugar customed to an increase in the price but beet sugar. In the zone which is of sugar. This has been called by at present in the throes of one of the them the canning season raise in sug- most devastating wars of history exar. The canning season during this ists practically Europe's entire sugar present year opens, however, clearly production, comprising France, Belwithout a precedent, and we are con- gium, Germany, Austria and Russia. fronted with a general raise in prices Last year these countries produced of food products all over the country. practically 8,000,000 tons of sugar; The claim advanced as the cause of 8,000,000 tons is 16,000,000,000 pounds, this raise is the war situation abroad. and one-fourth of this enormous quan-In this period farmers have seen a tity, or 4,000,000,000 pounds, or 2,000,marked rise in the price of wheat. 000 tons, was shipped to the United This rise has taken place in spite of States to help staisfy the American

Of this quantity imported from Eution of wheat to Europe and evidently rope approximately 800,000 tons came is caused by an anticipated demand from France, which we know is the home of the beet sugar industry. The rise in the price of potash salts Sometimes it is difficult to see where-If history is correctly written, Napoleon is the father of the beet sugar industry, and his France in the year In the last few years the United 1913 produced approximately 800,000 100,000,000, and last 8,000,000 tons, all within the circumwe may expect sugar to be fairly well war may be the means of stimulating the production of beet sugar in the

CONCRETE CISTERN TROUBLE.

I have just built a rain water cistern of cement and have a filter of charcoal. When I try to make a suds with soap or washing powder it takes two or three times as much as it should. Can you tell me anything I can do to remedy the trouble? I presume the cement is the cause but the water is no good as long as it is in this condition.

nis condition. Grand Traverse Co. E. S.

A cistern which has been built of cement is, as a rule, not impervious to water and will very frequently be found to give up its soluble lime salts could be put to use in the production to the rain water. This is a very anof this food product with its ever in- noying condition because, of course, creasing demand. We distinctly re- the lime makes the water hard and it member with what a feeling of pride then has lost its desirable properties our own Dr. Kedzie, who may be con- as rain water. Of course, it is a nuisidered the pioneer in Michigan in ad- sance to be compelled to soften rain vocating this industry, exhibited the water. This may be done, however, first hundred pounds of granulated by the use of ammonia or soda ash. beet sugar produced in the factories We think the best way to handle the of Michigan, and Michigan beet sugar situation, however, is to pump the even though produced in quite consid- cistern dry, thoroughly dry it out and erable quantities is really but a drop then coat the inside thoroughly with in the bucket in so far as the world one of the various paints of an asphaltic nature, known as asphalt paints, such as are used on founda-The United States during the past tions to make them impervious to wa-

CATALOG NOTICE.

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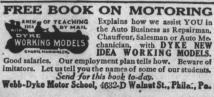
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The Bean Crop and Quoted Prices.

bean situation at present, to come for- prices can prevail. ward and set forth conditions on beans as they appear at present. My sibility is on account of the extreme low quotations being published by the Detroit Board of Trade for future beans. Namely: At the close September 21, \$2.15 per bushel. It would not surprise me in the least to see those quotations constantly reduced until they strike a \$2 basis for October shipments.

Now, then, let us see if there is any justification on the part of the Detroit Board of Trade in making those extremely low quotations. In the first place, the last Michigan state statistics given out by our state officials quoted the bean crop for 1914, at 80 per cent of an average crop. I have every reason to believe this quotation entirely too high, for the reason that no doubt their basis was taken, possibly three weeks ago, and at that time the bean crop appeared much better than it does at the present time. I believe that I am perfectly safe in saying that the counties of Sanilac, Lapeer, Macomb and St. Clair will not produce over 40 per cent of the beans they did in 1913. And from what I can learn from other sections of the state, there is not one single county that claims a normal crop. Together with the very backward and uneven conditions of the bean crop in the state of New York, it would appear to me that the markets are not going to be flooded with early offerings. Again, when we take into consideration the factor that foreign beans have been upon our market for several years past, we can only conclude that if such were not the case, beans would have commanded a price of at least \$1.00 per bushel more than has been realized. Now, on account of the great European war this stock of beans will be entirely cut off, and markets will have to be supplied entirely by our domestic stock.

A practice has been indulged in by a great many of the large bean jobbers of the state, which has not met with the approval of the entire membership of the Michigan Bean Jobbers' Association, that is in the selling of future stock. Some of those I refer to being closely related with the Deof beans down away below their ac-

Suppose that I should go to a mem-

that supply and demand are the con- transit or storage excepted.

I sincerely think it is the duty of years, and with the consumption of some person who is familiar with the beans increasing so rapidly, only high

St. Clair Co. M. P. SHANAHAN.

main object for assuming this respon- MICHIGAN'S LAW ON THE SALE day, September 28, OF FRUITS AND VEGETABLES.

or crate, of which all the contents some years. cannot readily be seen or inspected

Section. 2. Every person who, by indelible manner, as follows:

bles are packed, before such fresh his capacity in pressing juice. fruits or vegetables are removed from

Second, the name and address of inch in height.

closed package and intended for sale, son fairly started. unless such package is marked as is required by this act.

for sale, any fresh fruits or vegetables upon which package is marked any troit Board of Trade, might have been fruit as "No. 1," "Finest," "Best," too liberal sellers in the last few "Extra Good," "Fancy," "Selected," months, and there may be an inten- "Prime," "Standard," or other supetion now of bearing the future price rior grade or quality, unless such fruit or vegetables consist of well grown practically the local plant's capacity. tual value. It strongly apears to me specimens, sound, of nearly uniform that beans today should be the strong- size, normal shape, good color, for the plants will buy freely at their estabest product on the market. And you variety, and not less than 90 per cent lished price of \$35. producers take it for granted that you free from injurious or disfiguring are going to realize the highest price bruises, diseases, insect injuries or juice plants will this year use not far for your 1914 clrop that you have ev- other defects, natural deterioration from 18,000 tons or 1,500 carloads. The er realized, if judgment is used in of- and decay in transit or storage ex- wine makers will probably take 10,000 cepted.

ber of the Detroit Board of Trade to- expose, or have in his possession for the crop seems to be taken care of so day and endeavor to purchase a car sale, any fresh fruits or vegetables far as initial market is concerned, of C. H. P. beans at \$2.15 for October packed in any package in which the before a carload of grapes go outside. shipment; they would simply laugh at faced or shown surface gives a false Under these conditions there should me and say that I was not familiar representation of the contents of such be no trouble with marketing the crop with market conditions. The selling package, and it shall be considered a this year. price at present on the eastern mar- false representation when more than Michigan grapes have been quoted kets is \$2.50 to \$2.60 f. o. b. Michigan 20 per cent of such fresh fruits or lower than the above figures indicate common points. This is true, as I vegetables are substantially smaller that the eastern crop will bring. The have correspondence in my possession in size than, or inferior in grade to, situation again calls attention to my which will bear me out in those fig- or different in variety from, the faced suggestion of nearly two years ago or shown surface of such package, that a working arrangement of some It is a common rule the world over natural deterioration and decay in kind be brought about between the

the supply of beans we are going to himself, his agent or employe, know- price cutting. A. M. Loomis, have from the 1914 crop will prove to ingly violates any of the provisions of Sec'y Chautauqua & Lake Erie Fruit be the lightest we have had in several this act shall, for each such offense, Growers' Association.

be deemed guilty of a misdemeanor, and upon conviction thereof shall be punished by a fine not exceeding ten dollars, or by imprisonment in the county jail for a period not exceeding 30 days, or by both such fine and imprisonment in the discretion of the

NEW YORK GRAPE GROWERS EX-PECT A GOOD SEASON.

The grape season in the Lake Erie valley is well under way, the Concord season opening up in general on Mon-

Prices of basket stock opened strong with the early varieties quoted at from 13 to 17 cents in eight-pound That readers may be the better in- baskets. Opening Concord shipments formed on the requirements of the brought an average of 15 cents net to act passed by the last Michigan legis- the grower. This is an excellent showlature to prevent fraud and deception ing for the opening of the season, and in the sale of fresh fruits and vegeta- when taken in conjunction with the bles, we are running the entire text large demand for wine grapes in bulk, of the measure, which is as follows: and the local demand for grape juice Section 1. In this act unless the for which the bigger companies are contents otherwise requires, the term offering contracts at a minimum of "closed package" shall be construed \$35 per ton, puts the business this to mean a barrel, box, basket, carrier, year on the best financial basis of

There is a general belief that there when such package is prepared for is a 6,000 carload crop in sight, with market. Fresh fruits or vegetables in some experts figuring 500 cars above baskets or boxes, packed in closed or that figure. This is compared with a open crates and packages covered with less than 4,000 carload crop in 1913, burlap, tarlatan or slat covers, shall and a crop approximating 7,800 cars come within the meaning of the term in 1912. All figures quoted are for the "closed package." None of the pro- total crop, not the crop shipped out visions of this act shall apply to other to the general markets, that is, local than Michigan grown fruits and vege- wine and grape juice consumption included.

Because of this system of figuring himself or by his agent, or employe, the crop, the total figures mean a packs or repacks fresh fruits or vege- larger difference between grapes sent tables in closed packages intended for to outside markets than really exists, sale in the open market, shall cause for with small crop and consequent the same to be marked in a plain and high prices, the local consumption, particularly for wine, is shut off, First, with his full name and ad- while in 1912, for example, with a dress, including the name of the state bumper crop, and low prices, every where such fresh fruits and vegeta- wine maker in the grape belt went to

This same thing will happen this the premises of the packer or dealer; year, the demand for sour wine being greatly increased by the cutting off of such packer or dealer shall be printed a large part of the French imports of or stamped on said closed packages sour wine. The general impression is in letters not less than one-quarter that the demand for wine grapes, both at home and in the larger cities, will Section 3. No person shall sell, or double that of any year in the recent offer, expose or have in his possession past. One large shipper already refor sale, in the open market, any ports five times the inquiries ever befresh fruits or vegetables packed in a fore received before the shipping sea-

The naming of a minimum price in the large grape juice companies con-Section 4. No person shall sell or tracts of \$35 a ton, has gone very far offer, expose or have in his possession toward establishing a bulk price this These companies require a packed in a closed or open package, yard-inspected stock, really considerably better than what passes in the designation which represents such market as vineyard run bulk, and their price of \$35 is considered equivalent to \$30 for regular vineyard run wine stock. At this price the local buyers say that they will make up At the same time the grape juice

tons more, or say 800 carloads. In Section 5. No person shall sell, offer, other words, more than 35 per cent of

two grape belts to prevent unnecestrolling elements of our markets. And Section 6. Every person who, by sary duplication of shipments and

THE direct selling boom is about to come. Thus far the work has been elementary. The government is now behind a great campaign to boost it. The press is getting in line with the lead started by The Michigan Farmer three years ago. Box manufacturers are coming to join the ranks and cheap, strong, durable containers are now to be had. The public is awakened to a sense of its opportunity. These factors are all co-operating to effect a great chance in our

market. This steel-crated box, measuring 81/2x121/2x14 inches, is equipped with the following:

packed and made ready for shipment, and can be used over and over again. We can furnish the box for 50 cents, or with the Michigan Farmer one year at 80 cents; add to these prices eight

nity. These factors are all co-operating to effect a great chance in our marketing system.

Every farmer, poultryman, fruit grower, dairyman, should enlist. The beans are somewhat below normal. There is no clover seed. A large sumer. They must at least establish

grower, dairyman, should enlist. The fight is for the producer and the consumer. They must at least establish a system of trading that will hold in check the outrageously high taxation imposed by middlemen. This can be done by building up a direct trade. For, when margins become exorbitant then the trade will find a way around the men who exact more than they should.

We are instituting a recruiting station and are now ready to enlist those who would join in the campaign for a simpler and less expensive marketing plan. You can enlist by sending your name and address, together with the products you will have for sale this coming month, to the Farm Commerce Department of the Michigan Farmer, Detroit. Your name will be placed on a list with others and the list distributed among well-to-do families of the city asking that they correspond with you to arrange for direct sales.

Besides enlisting men we are going to furnish some of the ammunition. We have arranged with a box concern to supply our readers with one of the most practical shipping boxes on the market. This steel-crated box, measuring 8½x12½x14 inches, is equipped ter 40c; hay \$12.

ring 8½x12½x14 inches, is equipped with the following:

Four one-dozen egg cartons.

One two-pound butter tub.

One pint milk or cream bottle.

Partitions, parafined paper and shipping tags.

And a copy of government instructions on Parcel Post Shipping.

The box is light, durable, easily packed and made ready for shipment, and can be used over and over again.

We can furnish the box for 50 cents, or with the Michigan Farmer one year at 80 cents; add to these prices eight tents for postage in the first and sectors.

The structions of Parcel Post Shipping.

The box is light, durable, easily packed and made ready for shipment, and can be used over and over again.

We can furnish the box for 50 cents, or with the Michigan Farmer one year at 80 cents; add to these prices eight the first and sectors are not yet harvested, but are reported to be about Top per cent of average crop; 2,000 acres went into silos, 5,000 acres sweet corn was son will close this week. Potatoes are not yet harvested, but are reported to be about Top per cent of average crop; 2,000 acres went and silos, 12.

Columbia Co., Sept. 21.—We had some rain recently, but it came too late to help the corn crop. Some corn is being cut, but will not be a big yield. Late potatoes are good. Some clover has been cut for seed, but none threshed as yet. Apples are a fair crop, but the market is slow. Wheat is about all sown, and more rye has been sown than for several years. A few hogs and cattle have been sold, bringing good prices. Wheat \$1.10; oats 55c; corn 90c; eggs 24c; butter 28c a pound.

Warren Co., Sept. 22.—Rain is much needed. Corn cutting is in progress, and is reported to be about 75 per cent of average crop; 2,000 acres went into silos, 5,000 acres sweet corn was sent to canneries. The canning search progress are a fair crop, but the market is slow. Wheat is about all sown, and more rye has been sown than for several years. A few hogs and cattle have been sold, bringing good prices. Wheat \$1.10; oats 55c; corn 90c; eggs 24c; butter 28c a pound. Ohio.

or with the Michigan Farmer one year at 80 cents; add to these prices eight cents for postage in the first and second zones; 12 cents in the third, and 19 cents in the fourth zone from Detroit. Order through the Michigan Farmer Offices, Detroit.

Crop and Market Notes

Michigan.**

Wexford Co., Sept. 21.—Threshing and corn cutting about done. Corn is a fair crop; oats were good; hay was good. Potatoes are a fair crop; was good. Potatoes are a fair crop; was good. Potatoes are a fair crop; oats were good; hay was good. Potatoes are a fair crop; eaties were good; hay was good. Potatoes are a fair crop; eaties were good; hay was good. Potatoes doc; rye ethickens 14@15c; notatoes 40c; rye 65c; wheat 90c@\$1.

Eaton Co., Sept. 19.—Bean harvest and corn cutting is in full play, and the weather is excellent for both. Wheat 95c; beans \$2.25; oats 40c; rye 65c; wheat 95c; beans \$2.25; oats 40c; rye 75c; cron \$5c@0c; potatoes 60c; butter 20c@25c; eags 22c; hogs live \$6.75c; has himself of the ground is in fine condition. Potatoes are a better crop than usual, and here are about the same unual, and there are about the same unual, and th

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Markets.

GRAINS AND SEEDS.

September 29, 1914.

Wheat.—The advantage has been with the buyers this past week, although the decline is not as large as the heavy increase in supplies at elevators would probably cause under different circumstances. The increase in the visible supply amounted to 8,561,000 bushels. Future wheat is stronger than cash. There is a large amount afloat and Liverpool trading was easier Monday. Russian crop reports were bullish. While deliveries to primary elevators in the spring wheat districts have been heavy there seems to be a disposition developing among farmers to sell conservatively, as they are looking for the market to hold up. One year ago the price for No. 2 red wheat at this point was 93% c per bushel. Quotations for the past week are: September 29, 1914.

No.	2 No. 1	
Red	d. White. Dec	
Wednesday1.10 1/2	2 1.09 1.16 1/2	2
Thursday1.09 1/2	2 1.08 1.15	
Friday1.09 1/2	2 1.08 1.15	
Saturday1.0834	1.071/4 1.14	
Monday1.07	1.06 1.13	
Tuesday1.07	1.06 1.13	
Chicago, (Sept. 29).—No. 2 red	
wheat \$1.09%c; Decen	nber \$1.09; May	7

\$1.15%c.

Corn.—With wheat working to a lower level and weather conditions favorable for the maturing and gathering of the corn crop, that cereal has settled to a lower basis of prices during the week. There are buyers, however, who take hold on the tips and this keeps values from tobogganing, although the statistical situation is in keeping with reasonably high quotations. One year ago the price for No. 3 corn was 74c per bushel. Quotations for the past week are: for the past week are:

	No. 3	No. 3
	Mixed.	Yellow.
Wednesday	82	84
Thursday	81	83
Friday	81	83
Saturday	81	83
Monday	78	80
Tuesday	77	79
	29).—Se	ptember

corn 73½c; December 67%c; May 70%c.

Oats.—Increased Oats.—Increased prospects for heavy shipments abroad have given this deal strength and in spite of the decline in the other major cereals oats remain at last week's high quotation. The deliveries are small, farmers believing in the future of the grain and are willing to take chances on holding. The visible supply increase is insignificant. One year ago the price for standard oats was 41½c. Quotations for the past week are: prospects

Wednesday 50 49 ½ Thursday 49 ½ 49 ½ Friday 49 ½ 49 Faturday 49 ½ 49 Monday 49 ½ 49 Tuesday 48 ½ 48			No. 3
Thursday 49½ 49 Friday 49½ 49 Saturday 49½ 49 Monday 49½ 49	Sta	andard.	White
Thursday 49½ 49 Friday 49½ 49 Saturday 49½ 49 Monday 49½ 49	Wednesday	50	49 1/2
Saturday 49 49 Monday 49 49		491/2	49
Saturday 49½ 49 Monday 49½ 49	Friday	491/2	49
		49 1/2	
Tuesday 48½ 48	Monday	491/2	49
	Tuesday	481/2	48

Butter.—Market active and easy. Prices are lower. Extra creamery 29c per 1b; firsts 27c; dairy 21c; packing stock 20½c.

Chicago.—Market is easy with demand limited. Prices are slightly lower. Trade is slow. Extra creamery 29c; extra firsts 28@28½c; firsts 26@27c; seconds 24@24½c; packing stock 20½c.

Elgin.—No sales made but 28½c was asked with Chicago inspection. With Elgin inspection 29c was bid. New York.—The market is steady; prices slightly lower. Creamery extras 30@30½c; firsts 27½@29½c; seconds 25½@27c.

Eggs.—Market is firm with a light supply. Prices unchanged. Fresh stock sells at 23½c per dozen; current receipts 22c.

Chicago.—Market steady with prices slightly lower. Offerings are good. Miscellaneous lots, cases included 18@20½c; ordinary firsts 19½c; firsts 20½c.

Poultry.—Market steady, with fair

@20½c; ordinary firsts 19½c; firsts 20½c.

Poultry.—Market steady, with fair supply. Springs 15c; hens 14@15c; ducks 14@15c; young ducks 15@16c; geese 11@12c; turkeys 19@20c.

Chicago.—Heavy receipts of fowls and springs caused a decline in their prices. Quotations on live are: Fowls 12½@13c; spring chickens 12½c; ducks, good stock 14c; guinea hens, per dozen \$3.50; young guinea hens \$2@4; turkeys 16c; geese 11@12c.

New York.—Western chickens, broilers 13½@14c; fowls 15%@16½c; turkeys 15@16c per pound.

FRUITS AND VEGETABLES.

Fruits.—Pears, Bartletts, \$1.25@ 1.50 per bu; common 75c@\$1; plums \$1.25@1.50 per bu; grapes 13@14c for blue, per 8-lb. basket; peaches, Elber-tas, choice \$1.50@1.75; A, \$1.25@1.35; B, 75c per bushel. Chicago.—Michigan peaches 50c@ \$1.25 per bushel; Bartlett pears \$1.50 @5 per bbl; grapes 11@12c per 8-lb. basket; Hyslop crab apples \$3@3.50 per bbl. Vegetables.—Home

basket; Hyslop crab apples \$3@3.50 per bbl.

Vegetables.—Home-grown cabbage, \$1.25 per bbl; new beets 65c per bu; radishes \$1@1.25 per hundred bunches; green corn 75@80c per sack.

Potatoes.—Michigan \$1.50 per sack; bulk 50c per bu; at Chicago, Michigans are quoted at \$40@50c.

Apples.—Supply is liberal and demand is fair. Average receipts 50@75c per bu; \$1.50@2.50 per bbl.

Chicago.—Liberal supply of both bulk and barrel stock. Demand fairly active. Prices on bulk lower. Wealthy \$2@2.50; Kings \$2.25@2.75; Maiden Blush \$2.25@2.50; Alexander \$2.25; Wageners \$2@2.25; Jonathans \$3.50@4; bulk apples 75@90c per 100 lbs.

GRAND RAPIDS

DAIRY AND POULTRY PRODUCTS. be pretty well cleaned up at the close. Trade was active and 10@15c higher on best grades of hogs, while pigs and lights advanced fully 25c per cwt., owing to short supply here and at all other markets, there being about 75 cars on sale here. Best grades of mand limited. Prices are slightly lower. Trade is slow. Extra creamery 29c; extra firsts 28@28½c; firsts 26@27c; seconds 24@24½c; packing stock 20½c.

Elgin.—No sales made but 28½c was active and 10@15c higher on best grades of hogs, while pigs and lights advanced fully 25c per cwt., owing to short supply here and at all other markets, there being about 75 cars on sale here. Best grades of handy weights sold at \$9.40 generally, with extreme heavies quotable at \$9.20 @9.30. Pigs generally 9c per lb., and light hogs up to \$9.30; roughs \$8@ \$8.25; stags \$6.50@7.75. Late trade was active and a good clearance was made.

made.

The market was active today on lambs and sheep with prices 35c higher than the close of last week; choice handy lambs selling mostly at \$8.50@8.60. We look for lower prices balance of the week as we are too high compared with other markets.

We quote: Lambs \$8.50@8.60; cull to fair \$6.50@8.25; yearlings \$6.07; bucks \$3@4.25; handy ewes \$5.50@5.75; heavy do \$5@5.50; wethers \$6.25@6.50; cull sheep \$3.50@5.50; veals, choice to extra \$11.75@12; fair to good \$10@11.50; heavy calves \$6@9.

Chicago.

Chicago.
September 28, 1914,
Cattle. Hogs. Sheep.
Receipts today...22,000 20,000 50,000
Same day 1913...25,382 40,776 38,206
Last week46,405 91,713 172,171
Same wk 1913...54,932 137,412 231,647
There is another large Monday cattle supply for these times, including 8,500 from western ranges, and other western markets report liberal offerings, with 29,000 at Kansas City. Good to fancy beeves are going at steady prices, with one consignment of black cattle held at higher figures, but they

ings, with 29,000 at Kansas City. Good to fancy beeves are going at steady prices, with one consignment of black cattle held at higher figures, but they were not sold at a late hour. Others than good cattle promised to sell at least a dime lower. Hogs were advanced about a dime, with sales at \$7.80@9.15. Hogs received last week averaged 239 lbs., comparing with 247 lbs. a week earlier, 241 lbs. a fortnight earlier and 214 lbs. a year ago. There were a few early small sales of choice lambs to city butchers at \$7.60 @7.75, but lackers held off, and it was thought that aside from fat sheep the general market would break 15c or more, with such liberal offerings. Cattle of the class selling below \$10 were largely 10@15c lower on Monday last week under a larger supply than usual, the run amounting to 24,845 head, but the decline was recovered on Wednesday, when only 13,253 showed up. Monday was the only day of the week when the supply could be called large, and the week as a whole was a good one for sellers, with a new high record for the year, as several sales were made of fancy heavy beeves and one lot of 1141-lb. yearlings at \$11.05. The bulk of the steers sold at \$8.40@10.65, the commoner class of light-weight grassy steers going at \$7@8 and the better class of corn-fed cattle at \$10@11.05. Grassy cattle made up a large share of the offerings, both in Chicago and other western markets, these including farm-fed cattle and western rangers, while many grass cattle reached the southwestern markets. The spread in prices for steers has been extremely wide, with choice beeves selling far higher than a year ago, while the poorest steers were lower than then. This is explained by the poorer average quality of the cattle coming to market. After the western range cattle stop coming there will be a better show for native cattle. The medium grades of steers are selling at \$8.75@ sata remain at last week's high quotarians ferrings believing in the ruture of the grain and are willing to take chances on holding. The willing to take chances on holding. The willing to take chances on holding. The willing to take chances on holding the price for standard cats was 41½c.

Standard. White week. Local dealers are quotations for the past week are a standard willing to the week. Local dealers are quotations for the past week are a standard willing only \$1.30 to farmers for the week. Local dealers are week the past week will be the carly crop is short in some white the carly crop is

ing with 210 lbs. a year ago, 235 lbs. two years ago and 225 lbs. three years ago. Fresh pork consumption continues extremely large, and prime light hogs sell at the highest prices, with big, heavy packing sows lowest of all. Pigs are scarce and sell relatively high. Provisions, however, have developed a good deal of weakness, and lard sells much lower than a year ago, exports having been largely stopped since the war began, while bad business and financial conditions down south have affected the demand greatly. The week closed with hogs selling at \$7.65@9, while pigs brought \$5@8.50.

Sheep and lambs have continued to undergo enormous fluctuations in prices, with alternate extremely large and very small offerings. September saw the highest prices ever recorded in that month, with \$9 lambs week before last, and this boom brought in such exceptionally large supplies on the opening day last week that prices went all to pieces. The week's receipts increased enormously, and sellers got far the worst of it. In addition to heavy shipments from Idaho, Montana and Nevada ranges, large numbers of native lambs arrived, and the market was glutted most of the time. The week closed with lambs selling at \$6@7.80, feeding lambs at \$6.85@7.50, yearlings at \$5.50@6.25, wethers at \$5.35@5.85, ewes at \$3@5.25, bucks at \$3.30@4.25 and breeding ewes at \$5@6.

CROP AND MARKET NOTES.

(Continued from page 289).

Medina Co., Sept. 21.—Most farmers have finished threshing, and wheat yielded much better than usual, from 20 to 33 bushels, but oats were rather poor, from 25 to 25 bushels. About two-thirds of the wheat is sown; corn is nearly ready to cut, and is a fair crop; many silos are being filled; the potato crop looks promising. There is a fair crop of apples. Wheat \$1.02; oats 50c; hay \$13; prime beef \$6.50@8; hogs 9c; butter 30c; chickens 15c; eggs 26c.

Indiana.

Indiana.

LaGrange Co., Sept. 21.—The rain that appeared after the drouth greatly helped the corn, even if it was badly affected by drouth. A great amount of corn has been cut. The silos are filled. The potato crop is late but will make an excellent crop if the frost stays away. Onions are ripe and are producing a good crop. The bean crop was very short and was badly affected by the drouth. No clover seed in this section. The apple crop is about normal. Farmers are not sowing as much wheat this year as is usually sown. Very little rye is sown in this section. A few fat hogs is the only class of live stock for sale. Wheat \$1.10; corn 77c; oats 47c; eggs 24c; butter 32c. Indiana.

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.
September 24, 1914.
Cattle.
Receipts 1779. Canners steady; all others 25c lower than last week; quality common.
Best heavy steers (quotable) 28.50

Receipts 1779. Canners steady; all others 25c lower than last week; quality common.

Best heavy steers (quotable) \$8.50 @8.75; best handy weight butcher steers \$7.50 @7.75; mixed steers and heifers \$6.75 @7.15; handy light butchers \$6.50 @7; light butchers \$5.50 @6.25; best cows \$6.50 @6.65; butcher cows \$5.50 @6.65; common cows \$4.75 @5.50; canners \$3.50 @4.50; best heavy bulls \$6.50 @6.75; bologna bulls \$6.90 &2.5; took bulls \$5.25 @5.85; feeders \$6.75 @7.40; stockers \$6.66.50; milkers and springers \$40 @90.

Bishop, B. & H. so \$2 \$\text{Sullivan P. Co.} 3 \$\text{bulls av 1170 at \$6.40, 2 cows av 865 at \$4.75, 3 steers av 850 at \$7.25, 1 \$\text{bull wgh 910} at \$6.25; to Mich. B. Co. 2 cows av 950 at \$6, 2 do av 1040 at \$6, 4 canners av 875 at \$4.25; to Mich. B. Co. 2 cows av 950 at \$6, 2 do av 1020 at \$5.50, 2 \$\text{bulls av 1410 at \$6.75, 1 do wgh 1000 at \$6.75; to Sheldon 17 feeders av 842 at \$6; to Newton B. Co. 2 bulls av 1335 at \$6.50; to Berg 25 feeders av 860 at \$7.25; to Parker, W. & Co. 2 cows av 935 at \$5; to Grant 3 \text{bulls av 1335 at \$6.50; to Berg 25 feeders av 860 at \$7.25; to Parker, W. & Co. 2 cows av 935 at \$5; to Reid 35 stockers av 700 at \$6.50; to Ratner 2 oxen av 185 at \$6.25; to Findlay 8 stockers av 520 at \$6.75, 12 do av 652 at \$7; to Rattkowsky 3 cows av 1127 at \$5.75; to Breitenbeck 9 \text{bulls av 952 at \$5.65; to Marx 19 \text{butchers av 863 at \$7.10; to Houck Bros. 10 stockers av 705 at \$5.50; to Mars 19 \text{butchers av 863 at \$7.10; to Houck Bros. 10 stockers av 705 at \$5.50; 2 \text{do av 652 at \$7; to Rattkowsky 3 cows av 1127 at \$5.75; to Breitenbeck 9 \text{bulls av 952 at \$6.65; to Findlay 8 stockers av \$6.50; to Mars 19 \text{butchers av 863 at \$7.10; to Houck Bros. 10 stockers av 705 at \$5.50; to Breitenbeck 9 \text{bulls av 952 at \$6.65; to Marker 3 do av 880 at \$6.90; to Sullivan P. Co. 2 cows av 775 at \$5.5 do av 1080 at \$6.50; to Hotheks 12 stockers av 565 at \$6.50; to Hotheks 12 stockers av 565 at \$6.50; to Hotheks 5 do av 1085 at \$6.50; to Kamman B. Co. 1 s

Veal Calves.

Receipts 451. Market 50c lower than last week. Best \$11@12; others \$7@9.50.

Receipts 451. Market 50c 10 wers \$7@9.50.

Bishop, B. & H. sold Sullivan P. Co. 1 wgh 110 at \$11, 2 av 210 at \$10.50, 3 av 165 at \$11.50, 2 av 140 at \$11.50, 11 av 125 at \$11, 13 av 120 at \$11.50, 11 av 125 at \$11.50; to Parker, W. & Co. 2 av 140 at \$11.50, 3 av 180 at \$11.50, 15 av 160 at \$11.50, 3 av 180 at \$11.50, 15 av 160 at \$11.75, 7 av 160 at \$12, 2 av 190 at \$11.75, 7 av 160 at \$12, 1 wgh 190 at \$11; to Mich. B. Co. 2 av 160 at \$11, 2 av 160 at \$12, 4 av 200 at \$10.50; to McGuire 3 av 165 at \$12, 18 av 160 at \$11.50, Sheep and Lambs.

Receipts 7078. Market steady with Wednesday; lambs \$1 lower than last week. Best lambs \$7.50@7.60; fair lambs \$6.50@7.25; light to common lambs \$5.50@6; fair to good sheep \$4.50@5; culls and common \$3@4. Haley & M. sold Hammond, S. & Co. 91 lambs av 75 at \$7.50; to Newton B. Co. 18 do av 60 at \$5.50, 26 do av 60 at \$7.50, 21 do av 80 at \$7.50, 3 sheep av 125 at \$4.50; to Hammond, S. & Co. 25 lambs av 50 at \$6.25, 22 do av 55 at \$6.25; to Nagle P. Co. 92 do av 75 at \$7.50, 132 do av 80 at \$7.25; to Thompson Bros. 15 do av 65 at \$7.60; to Hammond, S. & Co. 27 do av 75 at \$7.50; to Nagle P. Co. 92 do av 75 at \$7.50, 132 do av 80 at \$7.25; to Thompson Bros. 15 do av 65 at \$7.60; to Hammond, S. & Co. 27 do av 73 at \$7.60; to Thompson Bros. 46 sheep av 95 at \$5; to Mich. B. Co. 40 sheep av 105 at \$4.75, 20 do av 120 at \$4.75, 47 do av 115 at \$4.75, 37 do av 110 at \$4.50, 30 lambs av 45 at \$6.25, 32 do av 70 at \$7.35; to Sullivan P. Co. 19 do av 50 at \$6.25, 46 do av 70 at \$7.35; to Sullivan P. Co. 19 do av 50 at \$6.25, 46 do av 70 at \$7.35; to Sullivan P. Co. 19 do av 50 at \$6.25, 46 do av 70 at \$7.35; to Sullivan P. Co. 19 do av 50 at \$6.25, 46 do av 70 at \$7.35; to Sullivan P. Co. 19 do av 50 at \$6.25, 46 do av 70 at \$7.35; to Sullivan P. Co. 19 do av 50 at \$6.25, 46 do av 70 at \$7.35; to Sullivan P. Co. 19 do av 50 at \$6.25, 46 do av 70 at \$7.35; to Sullivan P. Co. 19 do av 50 at \$6.25, 46 do av 70 at \$7.35. 50 at \$6.25, 46 do av 70 at \$7.50.

Hogs.
Receipts 6122. Market 40@50c lowthan last week; all grades \$8.80@

8.85.

Haley & M. sold Parker, W. & Co.
375 av 190 at \$8.85, 150 av 160 at
\$8.80, 175 av 200 at \$8.90.

Spicer & R. sold same 320 av 190
at \$8.85, 160 av 150 at \$8.80, 215 av
200 at \$8.90.

Bishop, B. & H. sold Hammond, S.
& Co. 1675 av 190 at \$8.85, 560 av 150
at \$8.80, 710 av 200 at \$8.90.

Roe Com. Co. sold Sullivan P. Co.
175 av 200 at \$8.85, 75 av 140 at \$8.80,
100 av 200 at \$8.90.

Market closed with sales 50c lower
than last week's top.

Friday's Market. September 25, 1914.

Friday's Market.
September 25, 1914.
Cattle.

Receipts this week 1930; last week 1779; market dull at Thursday's prices. Best heavy steers (quotable) \$8.50@9; best handy weight butcher steers \$7.25@8.25; mixed steers and heifers \$7@7.50; handy light butchers \$6.75@7.50; light butchers \$6.50@7; best cows \$6@6.75; butcher cows \$5.25@5.75; common cows \$4.50@5; canners \$3.50@4.50; best heavy bulls \$6@6.75; bologna bulls \$5.50@6.25; stock bulls \$5@5.50; feeders \$6.75@7.50; stockers \$6.25@7; milkers and springers \$40@80.

Veal Calves.

Receipts this week 439; last week 451; market steady. Best \$11@12; heavy \$6@7; others \$7.50@9.
Sheep and Lambs.
Receipts this week 6705; last week 7078; market steady. Best lambs \$7.50; fair lambs

Receipts this week 6056; last week 6122. Market 5c lower; pigs \$8.75; others \$8.80@8.85.

LIVE STOCK NEWS.

Recently there has been a regular boom in the Chicago lamb market, the greatly inadequate receipts of choice fat lots resulting in lively competition between local buyers and shippers to the eastern markets and sending up prices with a rush. Yearlings and fat sheep moved up, with light offerings, and most of the time it was impossible to find any prime fat little yearlings. Feeders went like hot cakes, country buyers wanting not only thin range lambs but also range yearlings and wethers suitable for finishing. It is everywhere known that shipments of feeders into feeding districts this season have undergone a great falling off from such snipments last year, and everything now points to scarcity and high prices for finished flocks during the coming winter and spring months. In the absence of fat lambs, killers have purchased quite a number of lambs really on the feeder order, consisting of partly fattened lots, thereby competing with the feeder demand. Choice lambs are much sought after by eastern shippers, especially those from New York, and they will pay almost any price rather than get left. A good inquiry for breeding ewes is reported, with few to be had.

A prominent live stock commission firm of Chicago, with branches in other live stock centers of the west, has received numerous inquiries from various sections asking advice as to the advisability of feeding corn from four to six weeks to grass cattle weighing from 700 to 1,100 lbs. Replies have been made that it seems a better policy to buy cattle weighing from 1,150 to 1,300 lbs. and carrying good flesh, with the view of feeding them from 60 to 1,000-lb. cattle and taking them back to the country, as it has been found that such cattle will bring just as much money if shipped off of grass. Quite recently Missouri river markets have been receiving good runs of heavy-weight half-fat cattle that can be fed, it is believed, to make money. Late reports indicate that there is a serious shortage of corn-fed steers available for marketing during the next 90 days,

pounds. Horses were marketed in recent weeks in much larger numbers than a year ago, but the good demand for army horses has made a good outlet for suitable offerings at well maintained prices, and smaller receipts of heavy drafters checked the previous decline in prices. The bulk of the horses offered go below \$200 per head, decline in prices. The bulk of the horses offered go below \$200 per head, army horses going at \$120@160 and heavy drafters at \$240@275, while lighter drafters fetch \$200@235. Wagoners sell at \$150@200, and inferior to fair horses sell at \$60@115.

Word comes from Omaha that notwithstanding short pastures, highpriced grain and tight money, the demand for choice feeders is as brisk as

mand for choice feeders is as brisk as

The price of corn fed to live stock in the Chicago stock yards has been raised to \$1.25 a bushel, an advance of 25 cents.

Within a short time a carload of fancy Hereford yearlings that averaged 719 pounds was picked up in the Chicago stock yards by a western Terms cash. We do not pay freight.

Indiana feeder at \$8.25 per 100 lbs., the highest price paid for that class in several months. On the same day a sale was made of four carloads of 1071-lb. feeders to an Illinois stockman at \$8.25. Shipments of feeding cattle from Chicago during July and August were only a little more than half the number shipped out in the corresponding time four years ago, when shipments aggregated 74,560 head. head.



Good eating

HE people who cure this fall with Worcester Salt will look forward to deliciously flavored corned beef, hams and bacon!

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Worcester Salt is far and away the best for butter making. fine, snow-white crystals melt the moment you sift them in.

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APPLES AND POTATOES MAKE YOUR SHIPMNTS TO E. L. RICHMOND CO., Detroit, Mich.

BOUGHT—Bears, Foxes, Minks, Ducks, Guineas and all kinds of birds and animals William J. Mackensen, Box 334, Yardley, Penna.

WANTED to hear from owner of good farm for sale. Send cash price and description.

D. F. BUSH, Minneapolis, Minn.

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Near Saginaw and Bay City, in Gladwin and Midland Counties. Low prices: Easy terms: Clear title. Write for maps and particulars STAFFELD BROTHERS, 15 Merrill Building, Saginaw, (W. S.), Michigan.

Central Michigan Farms—Great bargains to offer now for list A. BENHAM & TRIM, Hastings, Michigan.

NEW JERSEY FARMS near Phila, and Trenton. All 1898, ALBERT DRESSER, Burlington New Jersey.

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DELAWARE FARMS Fruit, live stock, alfalfa. Best land near best markets. Address, State Board of Agriculture, Dover, Delaware,

CASH FOR YOUR FARM-I bring buyers togeth. er. Write me if you want to buy, sell or trade. Established 1881. John B. Wright, successor to Frank P. Cleveland, 948 Adams Express Building., Chicago.

The Heart of the Fruit Belt—33 acres, fine for truck and fruit, poultry, 28 acres cleared, 5 timber, house, barn, fruit, etc. Price \$375. Fine climate, good water, good soil, two crops a year. Particulars regarding this farm and others address. CALLIN & HASSELL, Milan, Tennessee.

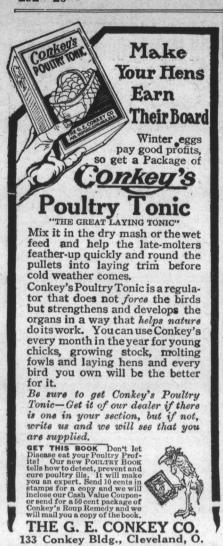
35 Acres Two story 9 room house, painted and papered 3 large hen houses, capacity 600 hens, 80 Apple trees, Pears, Cherries, Peaches, Grapes.

Barn 30x40, 36 mile Church, Creamery, School, Included to quick buyer pair horses, harnesses, wagons, top buggy, plows, harrow, a lot of tools, all for \$1350, \$200 cash, balance time.

Hall's Farm Agency, Owego, Tloga Co., N. Y.



One nests inside of two. Corner posts flat towards contents. Sample crate in flat postpaid for 25 cents in stamps. Prices as follows;

Nailed. 25 crates \$3 50 50 crates 6 60 In flat. \$2 90 5 60 



White and Brown Ferrets for Sale Prices free. Will drive and all small animals out of holes. Burt Ewell, Wellington, 0.

POULTRY.

HERE'S YOUR OPPORTUNITY Fawn and white runner pure white runner drakes, best in U. S. RIVERVIEW FARM, R. No. 8, Vassar, Mich.

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

PLYMOUTH Rock 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. CRAMTON, Vassar, Mich.

8. L. WYANDOTTE EGGS-From great laying strain Satisfaction guaranteed. F.E. Cowdrey, Ithaca, Mich.

LILLIE FARMSTEAD POULTRY B. P. Rooks, B. I. Heds, and S. C. W. Leghorn esset for sale, 15 for \$1; 26 for \$1.50: 50 for \$2.50. COLON C. LILLIE. 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 at half price. Won 20 prizes last winter 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, Ponies Send stamp. W. E. LECKY, Holmesville. Ohio,

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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 a short distance from the floor. The to spoil.

Poultry and Bees.

old bees as consumers in the hive. cleaned out at any time. Young bees are essential to good wintering, while old ones are a detriment.

In locations where the winters are quite severe, breeding is suspended for several months. Care should be ing the winter.

bees do not have enough stores, they ing green for them. Not only do you must be fed. Every colony should get value from your garden in the have from 25 to 40 pounds, depending on the strength of the colony and the otherwise, but you are benefiting the method of wintering. If feeding is need-soil at the same time. Almost any ed, honey may be used, but syrup winter-growing cover crop will anmade from granulated sugar is just swer, but there is nothing so easily as good and is perfectly safe. Never produced or that provides green so use or buy honey for feeding that you quickly as rye. Sow it rather thickly, do not know positively to be free and it will be green all winter and from bee diseases. Honey-dew should the hens will have a treat at all not be left on the hive because it pro- times. In the spring it will make a duces dysentery.

Use Dry Packing. In wintering bees out of doors the amount of protection needed depends on the severity of the winters. A case allowing four to six inches of can. This will cause it to gather the packing between the hive and the case rain and hold it, and in the spring the will work well. This packing can be soil will have stored a good supply of dry autumn leaves, shavings, saw- against the summer drouths. dust, or chaff. Dampness is harder for bees to withstand than cold, and when it is considered that bees give off considerable moisture, care should be taken that, as it condenses, it does not get on the cluster. A mat of old burlap, or a cover of burlap with fine shavings, chaff or ground cork on top makes a good absorbent. A cheap way to pack is to procure large boxes and remove tops and bottoms. Set these over the hives and fill with your packing material. A waterproof top now completes the wintering case. An opening must be left in front so the bees will be able to leave their hives. Some hives are made with double walls, the space being left empty or filled with chaff. This style of a hive is good for outdoor wintering. The hive entrance should be lower than any other part of the hive, so that any rain beating in may be able to run out. Entrances should be constructed in cold weather, not only to prevent cold

Wintering in the Cellar.

With care, cellar wintering is very successful. The cellar must be dry, and so protected that temperature stays between 40 and 45 degrees F. The ventilation must be good or the bees become fretful. Light should not be admitted into the cellar, consequently means of indirect ventilation is necessary.

Cellar wintering requires less conbut the low consumption of stores makes this unnecessary, as a general rule.

comes. The time for the easiest handling of them in putting them in the cellar is at night, after a rather chilly day.

PREPARING BEES FOR WINTER. entrance should be three-eighths of an inch by the width of the hive. Do not After the honey flow is over, man-close the entrance with wire cloth as age to keep the colonies only moder- the dead bees will accumulate more ately strong, so that there will be or less on the bottom boards and may young bees and not a large amount of cut off ventilation. Entrances may be

> Shiawassee Co. N. F. GUTE.

SOW RYE FOR THE HENS.

Some kind of green food is necestaken during late summer, so that the sary for the hens in winter, and somecolony goes into winter quarters with times it is a little difficult to know plenty of young bees. In case any just how to provide it. Bluegrass queen shows lack of vitality, she pasture usually affords green grass alshould be replaced early, so that the most all winter, but not all of us can colony vill not become queenless dur- have a good large bluegrass range.

Most everyone who has hens has a If, as cold weather approaches, the garden that they can use for providwinter when it would be laying idle mass of foliage to be plowed under to enrich the soil and place it in a splendid mechanical condition. When you plow for the rye do not make the seed bed level, but leave it as rough as you

Seed Pens to Rye.

If you have your hens shut up in a pen it is a good idea to seed this pen to rye, and it can be done if you can shut the hens out of it for awhile until the rye gets a good start. If you can divide the pen into two it will make the feeding more easily attended to, for they can be given free range on one lot until they begin to get it pretty short, when they can be transferred to the other and let that one grow up again.

If you cannot, or do not care, to sow rye you can sow wheat instead, though it will not grow nearly so fast. Neither is wheat of so much value as a soil enricher.

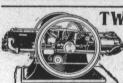
Cabbage can be purchased rather cheaply in the winter where they are bought wholesale by the crate, and it is better to use a few crates of it than to let the hens go without anything of the kind. Alfalfa meal is good, but it does not quite fill the bill. Hens winds from entering, but to keep out like some juicy succulent food in winter as well as people do.

Carrots, beets, sprouted oats, cull potatoes, or anything in this line will answer to supply the vegetable portion of their diet and cause your hens to lay in winter, and if you cannot provide the rye you should not fail to give them something to take its place. L. H. Совв.

EGG CANNING EXPERIMENTS.

The Department of Agriculture is sumption of stores to maintain the conducting experiments in a number proper temperature in the cluster and of egg-breaking establishments in oris therefore more economical on the der to assist the manufacturers in stores. Bees so wintered do not have canning perfect eggs for winter use. the opportunity of a cleansing flight, According to the specialists of the Department there is no reason why eggs cannot be broken, canned and kept as an excellent food just the The time for putting bees in the same as other products are canned cellar will vary with localities. They and kept for use when the fresh supare put in before severe cold weather ply is low. As in all canning, however, the specialists have made clear that it is essential that nothing but perfect eggs be canned and that they be canned under such conditions of The hives may be piled one on top cleanliness and kept in such low temof the other. The lower tier is raised peratures that they have no chance





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38

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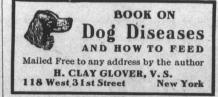
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FOR SALE-REGISTERED HOLSTEIN BULL, 1½ years old, % white, of popular breeding. A. L. MOORE, Okemos, Mich,

Breeders Directory Continued 295.

(Continued from page 276). Mare, 3 yrs.—Brilliant Lineal, Anderson.

Mare, under 3 yrs.—Lenawee Dale, Case, 1st; Lenawee Duchess, Case, 2nd; Lenawee Duchess II, Case, 3rd. Champ. Mare bred by Exhibitor— Lenawee Dale. Reserve—Lenawee Duchess. Get of Stallion—Dean Udell, Case,

1st. Produce of Mare—Case, 1st and Produce of Mare—Case, 1st and 2nd; Anderson, 3rd.

Best of Three Mares—Case, 1st; Anderson, 2nd.
Champ. Stallion—Open—Glendale

Anderson, 2nd.
Champ. Stallion—Open—Glendale
Pride, Anderson.
Reserve—Glaucus, Anderson.
Champ. Mare—Open—Limoite, Stevenson; Lenawee Dale, Case.
Heavy Draft Mares or Geldings.
Four yrs. old—B. F. Anderson, Adrian, 1st; C. M. Case, Adrian, 2nd;
Geo. Ackerman, Elkton, 3rd and 4th.
Three yrs old—A. E. Stevenson,
Port Huron, 1st; Ackerman, 2nd; Anderson, 3rd; Stevenson, 4th.
Two yrs. old—Case, 1st and 2nd.
One yr. old—Case, 1st and 2nd.
Colt—Case, 1st; Ackerman, 2nd;
Anderson, 3rd; Case, 4th.
Brood Mare and Colt—Case, 1st;
Anderson, 2nd; Ackerman, 3rd; Case,
4th.
Heavy Draft Points Stevenson 1st;

Heavy Draft Pairs—Stevenson, 1st; Anderson, 2nd; Case, 3rd; Ackerman,

Anderson, 2nd; Case, 3rd; Ackerman, 4th.

Light Draft Pairs—Ackerman, 1st and 2nd; Case, 3rd.

Shire Horses.

The Hendrie Farms, Detroit, had the only exhibit in this class, the fouryear-old stallion, Royal Oak Gilbert, who was given first prize.

Belgians.

Geo. Ackerman & Son, Elkton, had the only entries in this class. His imported stallion, Georgess, was made champion.

Berkshires.

Boar 2 yrs. or over—J. L. Miller, 2rd.
Boar, 18 mos. and under 2 yrs.—Kite, 1st; Miller, 2nd.
Boar 12 mos. and under 18 mos.—Kite, 1st; Miller, 2nd.
Boar, 6 mos, and under 12 mos.—Hibbard & Perry, Leslie, Mich., 1st; Miller, 2nd and 3rd.
Boar under 6 mos.—Kite, 1st and 2nd; Miller, 3rd and 4th.
Sow, 2 yrs. or over—Kite, 1st; Miller, 2nd. champion.

Clydesdales.

The entries were from Geo. Ackerman & Son, Elkton; J. H. Johnston, Wayne, and Daniel McIntyre, Sault Ste. Marie. Ackerman won all except three-year-old stallion, which went to Johnson, and one-year-old stallion won by McIntyre.

cott Farm.
Champ. Mare—Driftwood, Endicott

Standard Bred.

Stallion, 4 yrs.—Baron Peter, W. W. Collier, Pontiac, Mich., 1st; Eminence Chief; W. S. Robinson, Mt. Sterling, O., 2nd; San Frisco, F. H. Colby, Detroit, 3rd; Marble Grit, A. M. Starkweather, Northville, 4th.

Three yrs.—F. H. Colby, 1st; Tibbitts' Bros., Northville, Mich., 2nd; Collier, 3rd; Colby, 4th.

Two yrs.—Tibbitts Bros., 1st; G. W. Slaughter, Birmingham, 2nd and 3rd. One yr.—Collier, 1st. Brood Mare and Colt—Collier, 1st. Brood Mare and Colt—Collier, 1st and 2nd; Starkweather, 3rd; Mrs. Louis Wolff, Birmingham, 4th.

Mare, 4 yrs.—Slaughter, 1st; F. P. Mitchell, Columbus, Ohio, 2nd; F. P. Kerby, Detroit, 3rd; Collier, 4th.

Two and 3 yrs.—Colby, 1st; Slaughter, 2nd and 3rd; Daniel Lyons, Highland Park, 3rd; Collier, 4th.

One yr.—Slaughter, 1st; Collier, 2nd.

Stallion, 4 yrs.—Baron Peter, W. W. Stammen & Sons, 1st; McLaughlin, 2nd and 4th; Brookwater Farm, 3rd.
Four of either sex, get of same boar—Stemen & Sons, 1st; McLaughlin, 2nd and 4th; Brookwater Farm, 3rd.
Four of either sex, get of same boar—Stemen & Sons, 1st; McLaughlin, 2nd and 4th; Brookwater Farm, 3rd.
Four of either sex, get of same boar—Stemen & Sons, 1st; McLaughlin, 2nd and 4th; Brookwater Farm, 2nd and 4th; Brookwater Farm,

Mare Colt—Collier 1st; Starkweather, 2nd; Mrs. Wolff, 3rd; Starkweather, 4th.

er, 4th. Stallion Stallion and Get—Collier, 1st; Starkweather, 2nd. Champ. Stallion—Baron Peter, owned by W. W. Collier. Champ. Mare—Lady Cassidy, G. W.

Welsh Ponies. Aged Stallion—Geo. A. Heyl, Washington, Ill., 1st and 2nd; Endicott Farms, Birmingham, Mich., 3rd. All other classes were won by the Heyl ponies, they being the only exhibitor.

Shetland Ponies. Stallion, 3 yrs. old—Heyl, 1st and 2nd; Alles, 3rd and 4th.
Stallion, 2 yrs. old—Heyl, 1st; Alles

Stallion, 1 yr. old-Heyl, 1st; Alles Stallion Colt-Alles, 1st; Gordon,

2nd and 3rd.

Mare, 3 yrs. with colt under 2 yrs.

—Heyl, 1st, 2nd and 3rd; Gordon, 4th.

Mare, 1 yr. old—Heyl, 1st; Alles

Mare Colt—Gordon, 1st; Heyl, 2nd.
Four Get of One Sire—Heyl, 1st;
Alles, 2nd; Gordon, 3rd.
Two Produce of One Mare—Heyl,
1st and 2nd; Alles, 3rd.
Champ. Stallion and Mare—Heyl.

SWINE. Berkshires.

ler, 2nd.

Sow, 18 mos. and under 2 yrs.-Kite, 1st; Miller, 2nd and 3rd. Sow, 12 mos. and under 18 mos.-Kite, 1st and 2nd; Miller, 3rd.

Sow, 6 mos. and under 12 mos.—
Miller, 1st; Hibbard & Perry, 2nd and
3rd; Miller, 4th.
Sow, under 6 mos.—Hibbard & Perry, 1st; Miller, 2nd and 3rd.
Exhibitors' Herd—Miller, 1st.
Breeders' Herd—Kite, 1st; Miller, 2nd

Stallion Colts—Lord Warwick, Ackerman, 1st; Starplex, Endicott Farm, 2nd.

Mares 4 yrs. old—Driftwood, Endicott Farm, 1st; Intelligence, Endicott Farm, 2nd; Carlam's Coquette, Endicott Farm, 3rd.

Mares, 3 yrs. old—Seabreeze, Endicott Farm, 1st; Forest Primrose, Hodson, 2nd; Splasher, Endicott Farm, 3rd.

Mares, 2 yrs.—Satellite, Endicott Farm, 1st.

Stallion and Get—Sharplow, Endicott Farm, 1st.

Mare and 2 Colts—Warwick Princess, Ackerman, 1st; Warwick Maid, Endicott Farm, 2nd; Dorothy, Mrs. Grace Gordon, 3rd.

Champ, Stallion—Evergreen, Endicott Farm, 2rd.

Champ, Mare—Driftwood, Endicott Farm, 3rd.

Endicott Farm.

Endicott Farm, 2rd.

Boar, under 6 mos.—Brookwater Farm, 1st and 4th; McLaughlin, 2rd and 3rd.

Sow, 2 yrs. or over—McLaughlin, 1st and 3rd; Stemen & Sons, 2nd; Brookwater Farm, 4th.

Sow, 18 mos. and under 2 yrs.—

Stemen & Sons, 1st and 2nd; Mc-Laughlin, 3rd; Brookwater Farm, 4th.

Sow, 12 mos. and under 18 mos.—

Brookwater Farm, 1st and 4th; Mc-Laughlin, 2rd and 3rd.

Sow, 6 mos. and under 12 mos.—

McLaughlin, 1st and 3rd; Stemen & Sons, 2nd; Brookwater Farm, 3rd and 4th; Stemen & Sons, 2nd; Brookwater Farm, 3rd.

Exhibitors' Herd—McLaughlin, 1st; Stemen & Sons, 2nd; Brookwater Farm, 3rd.

Breeders' Herd—Stemen & Sons, 2nd; Brookwater Farm, 3rd

Stemen & Sons, 2nd; Brookwater.
Farm, 3rd.
Breeders' Herd—Stemen & Sons,
1st; McLaughlin, 2nd; Brookwater.
Farm, 3rd.
Four of either sex, get of same boar.
McLaughlin,

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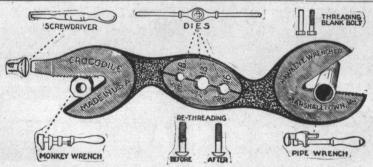
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We have given awayseveral thousand boys' watches free, but until now we were never able to get the small size watch which would please a girl and keep good time, at a price that would make it easily secured by a girl. At last we have been able to make arrangements with a manufacturer of high grade watches to furnish us with an attractive six size watch, with jeweled lever movement, quick train, a white enamel dial, with second-hand. Pull out stem set. Nickle case, beautifully engraved, as per illustration. This watch is the smallest genuine watch of its value to be secured and has all the improvements to be found in watches of a higher grade. Besides being attractive and fully guaranteed, it is a thoroughly satisfactory time-piece.

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Farmers Ideal Combination Wrench

Six Handy Farm tools in one. A pipe wrench, nut wrench, a screw driver and three dies for cleaning up and rethreading rusted and battered threads. Dies fit all standard bolts used on standard farm machinery. Requires no adjustment, never slips. Will work in closer quarters than any other wrench. Every farmer should carry one of these handy little wrenches on a binder, reaper, mower, etc. They are light, strong, compact and easily carried in the hip pocket.

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BOYS WATCH.

Every boy, young or old, would be proud to carry one of these watches. It is 16 size, with a nickel case. Stem set and wind. Regular watch movement with hair spring. Guaranteed by the makers and repaired free of charge for one year, if given ordinary care. Any boy who really wants a watch can easily earn one in one afternoon.

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Made by the famous Valley Forge Cutlery Co. Two blades made of best razor steel. Ebony handle. Brass lined and well finished throughout. Guaranteed to give satisfaction. Given free for sending three subscribers to May 1, 1915, at 25c



Myers' "Awl for All"

LOCK STITCH SEWING AWL, with straight and curved needles. Makes a lock stitch with one thread and one operation. For harness, sacks, canvas or any heavy sewing. Regular price of this awl

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A Handsome little velvet lined, gold lettered, embossed leatherette case with patent button fastener containing two very much needed little requisites for the woman's sewing or work basket. A Thread Pick for the picking or removing of basting threads and a Ripping Knife for ripping seams of garments. They have heavily nickle played, chased and highly burnished handles. The Ripping Knife has three interchangeable finest Sheffield steel razor-like blades. This little Set DeLuxe is new, novel, practical; fills a long felt want in its field and will surely appeal in a very strong degree to every woman to whose notice it is brought. List price \$1.00.

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Not a cheap razor, such as is generally used as a premium. It is made of best steel, black handle, hollow ground 5%-in. concave blade; honed and stropped ready for use. Guaranteed to give satisfaction.

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Grange.

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

NOTES ON RURAL SCHOOL PRO-GRESS.

is the transportation of the children satisfactory?" My seatmate answered heartily, "Most of them are pleased. Of course, some object, just as there are always some 'kickers'."

Just then other scenes were thrown on the screen—scenes on the 24-acre campus of the far-famed Swaney school of Putnam county, Illinois. This campus was the gift of John Swaney, a resident farmer, who thereby immortalized his faith in farm boys and girls. Think of it! A district school-yard of 24 acres, bearing 300 fine trees upon it, with hills and a stream, athletic field, and an experimental garden. While I marveled at these facts my neighbor on the left whispered, "Thats my school," where upon I began another rapid fire of questions: "Indeed, how far is it from town?" "Three miles from any town and way off from a town of any size." I further learned that this Swaney school receives nearly \$1,000 in tuition fees from pupils of other in tuition fees from pupils of other

Farmers' Clubs

CLUB DISCUSSIONS.

Arrange for Club Fair .- On September 16, "a perfect September day," between 50 and 60 members of Pittsford Farmers' Club met at the home of George Cousins and family. Prompt-

NOTES ON RURAL SCHOOL PROGRESS.

(Continued from last week). In this connection one of the Ohions made the significant remark, "Our Grange put that school there. We should have been discouraged long before if we had not met regularly at Grange and so renewed one another's courage." Which goes to show how much stronger community courage is than individual courage. It also illustrates the saying of Supt. Kern to the effect that it "makes all the difference in the world whether you enlist for 90 days or the entire war." These men enlisted for the war—and won.

This leads me to tell, also, of some interviews with patrons of consolidated schools of illinois. Mr. O. J. Kern, Superintendent of Winnegabo county schools, was illustrating his talk with stereopticon views. He three wonto the screen a picture of a country school building—a most inviting-looking building with four schoolrooms, attic for gymnasium, and basement for manual training, agricultural experiments and domestic science. The woman next to me whispered, "That's our school. The lecturer of our Grange is principal and has just spent six weeks at Madison University studying, and now will spend four weeks at Stout, trying to keep up with the procession." "Ah," said I, under cover of the darkness, "tell me, is the transportation of the children satisfactory?" My seatmate answered Gentlement of Control of the Indiana.

The company met on and around the front porch and were photographed. Then, last but not least, actual around the front porch and were photographed. Then, last but not least, actual around the front porch and were photographed. Then, last but not least, actual around the front porch and were photographed. Then, last but not least, actual around the front porch and were photographed. Then, last but not least, came the program, consisting of readings, recitations, and singing. The question box was well filled with questions that brought out good and discussions. Arrangements were made and committees appointed the program, consisting of readings, eporter.
Meet at a "Pioneer"

Meet at a "Pioncer" Home.—The September meeting of the Ingham County Farmers' Club was held last Saturday at "The Maples," with Mr. and Mrs. Sylvester B. Davis. It was a pleasant fall day, a good attendance and an unusually good time, for Mr. and Mrs. Davis are royal entertainers. As this was the first meeting at "The Maples," a word about the farm will not be amiss. It consists now of 280 acres, 160 of plow land and 120 acres of wood land and pasture. For the 120 acres across the road they have the deed from the government, dated February 1, 1849. This was the birthplace of Mr. Davis. The 80 acres where the buildings are was purchased 37 years ago as a wilderness and Mr. Davis slashed nine acres the first winter, so they are really pioneers and they have to the labor necessary to the service of the labor necessary to the service of the labor necessary. Home.-The ern states.

districts who attend it in preference to town schools. The building is equipped with modern conveniences and the courses of study include agriculture, animal and dairy husbandry, horticulture and household economics, with laboratories and a library. A glee club, orchestra and athletic associations furnish the school with those social accessories so dear to the young.

ern states.

Promote Organization of New Club.

—Mrs. Tanswell called attention to the fact that this was the first meeting we had ever held in the township of Onondaga and while we were known as the Ingham County Farmers' Club there was room for others and she would be glad to see a new Club formed. Everyone was busy, but these meetings would add much pleasure to an active life and was more like a Farmers' Club family than other organizations. E. B. Coryell said when a young man, he worksocial accessories so dear to the young.

(Concluded next week).

AMONG THE LIVE GRANGES.

Grange Holds County Fair.—Baraga County Pomona held their county fair on September 25-26, at L'Anse. There were the usual premiums for farm crops, fruits, vegetables, live stock, preserves and sewing. Besides these, there were special contests in corn growing and alfalfa and clover. There was a tomato growing contest for girls, and a potato growing one for the boys. The business men of the Upper Peninsula rendered valuable assistance by offering good premiums for the exhibits. A well arranged premium list of 50 pages was issued several weeks before the fair.

COMING EVENTS.

more like a Farmers' Club family than other organizations. E. B. Coryell said when a young man, he work ed for our former president, Mr. Wood, and had always known of the workings of the Club and whenever he had attended a meeting, he went home feeling that his time had been well spent. In this day one wanted to be progressive. President Ives thought the charter members builded better than they knew, and he would be glad to see and help organize a new Club. This has been a cry of the State Association and Mr. Cheney suggested that some interested farmer set a day invite those interested to talk things over, but he did not want them to take the second Saturday of the month, for some of us might want to attend. This discussion was brought out by being ten miles from Mason, the central point of our Club, and seeing several interested ones, could not help but drop the seed and offer encouragement. The next meeting will be the second Saturday of October, with Mr. and Mrs. C. E. Swift, at Lone Pine.—Mrs. Tanswell, Cor. Sec.

Veterinary.

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

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

Rheumatism Affecting Hind Quarters—Knee Sprung.—I have a horse that has shown some lameness and stiffness in hind quarters for several months. When down seems to get up fairly easy, but steps very short and gradually walks out of this soreness. The same horse is knee-sprung in one fore leg and has lost flesh lately. W. V. H., Fennville, Mich.—Rub back and hind quarters with spirits of camphor twice a day and give 2 drs. of sodium salicylate at a dose in feed night and morning. Apply equal parts turpentine, aqua ammonia and sweet oil to tendons of fore leg twice a week.

Eczema—Skin Blotches.—I have a Rheumatism Affecting Hind Quarters

tine, aqua ammonia and sweet oil to tendons of fore leg twice a week.

Eczema—Skin Blotches.—I have a seven-year-old mare that has perhaps been over-heated and blotches came out over her body, mostly on shoulder under collar and alongside where tug rubs. I have had her treated by our local Vet. and blotches are now almost gone, but her skin must itch as she bites her sides a good deal, is hard to clean because she insists upon being curried continually. G. F., West Branch, Mich.—Give her a dessertspoonful of Fowler's solution at a dose in feed three times a day and wet her body with one part bichloride mercury and 750 parts water twice a day. Dust on some finely powdered sulphur to itchy parts occasionally.

Sore Leg.—My cow met with an injury last winter, she fell on ice and injured hind leg low down. One of the bunches that formed is now discharging pus, but she is in good state of health. She also has two or three blotches on side which may perhaps be the result of same fall. W. R. C., Wayne, Mich.—Give your heifer a dessertspoonful of Donovan's solution at a dose in feed or water twice a day and apply equal parts of oxide of zinc and boracic acid to open sores twice a day; also paint bunches with tincture iodine three times a week.

Rheumatism.—My chickens are not doing well and I am inclined to be-

and boracic acid to open sores twice a day; also paint bunches with tincture iodine three times a week.

Rheumatism.—My chickens are not doing well and I am inclined to believe that they are afflicted with a contagious disease. First show lameness in one leg which lasts a week or ten days, then both legs are affected, gradually grow poor and die in two or three weeks. None of these fowls have recovered. F. M. Z., Ann Arbor, Mich.—From the symptoms you give, I am at a loss to make a correct diagnosis. If their joints swell, they may have rheumtism; if not they possibly die of tuberculosis. You should have one of them examined by a competent veterinarian.

Feline Distemper.—A number of years ago our cats became infected with distemper; since then we have not been able to raise a kitten. You undoubtedly know of symptoms, running or watering of eyes, sneezing excessively, after several seconds at a time. In later stages they sneeze strings of excretions from nose. Refuse to eat, and grow very weak, and sleep much of the time until they finally die of complete exhaustion. Kindly give remedy, if any, as I have some young angoras which I would very much like to raise. H. F., Francisco, Mich.—Why don't you have your kittens vaccinated with canine distemper vaccine, and the sick animals should be treated with curative vaccine serum. Giving drugs to them will not give you satisfactory results. A cat with distemper should be given \(\frac{1}{2} \) gr. doses quinine four times daily. If they refuse food, mix whiskey, egg and milk together and give them some five times a day. Remember, half a teaspoonful of whiskey is enough at a time for cat. Keep the animal in a well ventilated place and offer the cat five times a day. Remember, half a teaspoonful of whiskey is enough at a time for cat. Keep the animal in a well ventilated place and offer the cat

well ventilated place and offer the cat kind of food they prefer.

Catarrh.—I have a rooster and hen that breathe as if they had the croup or something in their windpipe. This allment is not infectious for my other birds are perfectly well. F. W., Fremont, Mich.—Your hen and rooster suffer from catarrh and will be benefited by giving equal parts of ground charcoal in their feed three times a day; or it can be given in a capsule or bolus—four grains is about the right dose for a full-grown chicken and the medicine should be given two or three times a day.

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Charcoal in their feed three times a day; or it can be given in a capsule or bolus—four grains is about the right dose for a full-grown chicken and the medicine should be given two or three times a day.

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