

DETROIT, MICH., SATURDAY, OCTOBER 16, 1920

ONE YEAR \$1.00 FIVE YEARS \$3 00



## Spotting the Layers

T HE average person should not try the impossible, and it is impossible for the ordinary farmer, as well as the most skillful poultryman, to succeed with hens which lack the capacity or ability for egg production. Slacker hens fed the most practically prepared feeds, housed in the best quarters and given queenly care, have not the remotest idea of gratitude for they simply will not produce eggs under the most persistent urging. Laying birds are just as necessary to the successful poultry venture as are good seeds to the enterprising gardner. Having the producing kind, then, the actual efficiency in egg production rests with the person operating the machinery.

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> The man or woman who looks to the poultry department of the farm for its proportionate contribution to the farm income

naturally asks, "Can the layers be separated from the slackers?" The economy of such a practice goes unchallenged but the average farmer is concerned about the practical phases involved. The poultry specialist may have known for many years that the non-layer could be spotted without the use of the trap nest, but the average keeper of fowls has not been acquainted with the practice until very recently, and although much has been written upon the question and many demonstrations by extension men have been given, it appears that the greatest progress in spreading the gospel of poultry culling has been made in those communities where the boys and girls have formed poultry clubs. When culling becomes common the poultry business will enter a new economic era.

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#### **CURRENT COMMENT**

#### Amending the Constitution

T is a matter of great importance to the welfare of the give careful attention of such municipality." to all proposed amend-

which are submitted to them at any ever, since the application of the initia- therefor. tive in the submission of proposed amendments to the fundamental law laid down for state government, since the text of proposed amendments may be written by anybody with sufficient following to secure the required number of signatures to a petition for its en from the eighth grade, from the grades do submission, and in case the interest of that in districts where the grades do the voters is not general, a compara-herein described in such district shall tion of important amendments to the constitution, the letter or spirit of

which may not be in accord with the der section sixteen effective." views of a majority of the voters of the state. Every progressive step in the development of popular government carries with it added responsibility and duty for the citizen, which the great body of good citizens must recognize and discharge if such progress is to be real and beneficial, rather than apparent and of doubtful benefit if not actually harmful. The matter of constitutional amendments is no exception to this general rule. In fact, it is probably its most important application. For this reason we are, as has been our rule in the past, publishing the proposed constitutional amendments to be submitted to the electors at the coming November election, with such explanations as seem to make their meaning clear, and urge every voter to express his approval or disapproval of them on election day. There are five proposed amendments to be submitted as follows:

ing came in the middle of the program ed to report upon changes on their The proposed amendment to Section when H. W. Mumford, director of live farms during the month, including the 21 of Article VI of the Constitution is stock marketing for the Illinois Agri- number of live stock, births, deaths, as follows:

such annual salary as may be prescrib- and the ed by law. They shall receive no fees breaks. or perquisites whatever for the per- 2. Ma formance of any duties connected with the office."

This proposed amendment, if adopted, will authorize and empower the legislature to fix the compensation of tween the price which the producer re- vor the quarterly plan used by some the text.

The proposed amendment to Section var of maintaining the centralized mar- the quarter is reached, whereas the 1 of Article III of the Constitution:

ment is long and its meaning simple, ized selling power representing the shead. A complete census every month for which reason it is omitted. Its ef- producer; the establishment of an ade- (Continued on page 499).

fect, if adopted, will be to extend the in their respective districts until they liberal prices for individuals from un-The proposed amendment to Section

as follows: have power to enact laws relative to the hours and conditions under which men, women and children may be em-ployed."

enact laws relative to the hours and to care for all pupils in these grades. yet the present system of conducting conditions under which men as well as women and children may be employed.

The proposed amendment to Article XIII of the Constitution is as follows:

"Section 5. Subject to this Constitu-tion the legislature may authorize mution the legislature may authorize mu-nicipalities, subject to reasonable limi-tations, to condemn and to take the fee to more land and property than is needed in the acquiring, opening and widening of parks, boulevards, public places, streets, alleys, or for any pub-lic use, and after so much of the land lic use, and after so much of the land and property has been appropriated for any such needed public purpose, the remainder may be sold or leased the remainder may be sold or leased with or without such, restrictions as may be appropriate to the improve-ment made. Bonds may be issued to supply the funds to pay in whole or in part for the excess property so ap-propriated, but such bonds shall be a lien only on the property so acquired and they shall not be included in any limitation of the bonded indebtedness state that every voter limitation of the bonded indebtedness

This proposed amendment, if adoptments to the constitution of the state ed, will empower the legislature to authorize municipalities to condemn tent men to handle the work, and putgeneral election. This has always been more land than is necessary for parks, important, but is more important than boulevards, etc., and to issue bonds strict supervision of state dairy author-

The proposed amendment to Article

XI of the Constitution is as follows: "Section 16. All residents of the state of Michigan, between the ages of five years and sixteen years, shall at-tend the public school in their respec-tive districts until they have graduat-ed from the eighth grade; Provided, that in districts where the grades do complete the course taught therein."

enact all necessary legislation to ren- conducting short tests and condition-

ment, if adopted, will be to compel all for sale one or two generations of unresidents of the state of Michigan be- tested dams makes a break in the pedtween the ages of five years and six- igrees which tends to lower prices. teen years to attend the public schools Buyers from outside states seldom pay

the American Farm Bureau Federation,

to be called by Mr. Howard.

ceives and the consumer pays.

Live Stock Marketing

ommendation that the chairman of the at each large market of a cooperative

appoint a "Committee of Fifteen" rep- United States Bureau of Crop Esti-

resentatives of these organizations to mates, described the plan now being

The real keynote speech of the meet- ber of representative farmers are ask-

3. The lack of a proper relation be- changes in between. He does not fa-

Mr. Mumford declared himself in fa- advance information when the end of

meeting, J. R. Howard, president of stock commission company.

HE outcome of the conference of quate foreign and domestic live stock

representatives of various farm- reporting service; encouraging the de-

absent voters' privileges to teachers in have graduated from the eighth grade, tested dams or granddams, no matter the public schools and the immediate and to require the legislature to enact how much quality they may show. In family of any member of the legisla- legislation rendering effective the pro- a few instances animals from untested

Cow Tests

for Small

Breeders

A CAREFUL study greater than he feels he can afford. Local cow-testing associations ha

pure-bred dairy cattle, as well as the cause it has been supported by men of methods of conducting local cow-test- means who have capitalized on the reing associations cannot fail to impress sults through the sale of breeding anithe thoughtful student of breeding mals to small breeders and farmers problems that action could profitably who needed these tested individuals be taken to put the local cow-testing to carry on their work of improvement. association work on some basis where. If the work of these two agencies could by the yearly records made under the be correlated and put on a more demosupervision of the local tester might cratic basis so that every constructive be given credit by the various breed breeder of dairy cattle and every proassociations of the country. As we un- gressive dairy farmer would profit from derstand the matter it is purely a ques- the records made by some of the best tion for the state authorities to de- cows in their herds great progress in termine.

there are several difficulties to over- petuated in our dairy herds. come, such as securing more competing the general work under more News of the Week ities. One of the advantages of such

a system of conducting cow-testing work would be the fact that it would encourage more breeders of dairy cattle to keep accurate production records and exercise greater care in the selec-tion and mating of breeding stock. Under the present system of conducting seven-day, thirty-day and semi-official yearly tests the breeder who has only a few cows hesistates about taking up Section 17. The legislature shall testing work because of the expense of ing his cows for the supreme trial. As The effect of this proposed amend- a result when he offers his animals

W. F. Callander, representing the

ture during sessions of the legislature. visions contained in section sixteen. dams and granddams may sell for com-While this amendment, sometimes paratively high prices, but even then 29, of Article V of the Constitution is referred to as the parochial school the purchases result from production amendment, is aimed at a single class records made from some close-up rela-"Section 29. The legislature shall of privately supported schools, its prac- tive in a herd where testing work has tical effect would be to abolish all been conducted for a number of genschools teaching these grades which erations, Considered from every angle are supported by private capital or the small breeder cannot afford to ov-This proposed amendment, if adopt- contribution, and make it necessary erlook testing work during the formaed, will empower the legislature to to at once expand the public schools tive period of herd development, and the work makes the expense of testing

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Local cow-testing associations have conducting semi-offi. succeeded because they were conductcial yearly cow-test. ed on more democratic principles. The ing work as practiced seven-day, thirty-day and semi-official by the breeders of yearly testing work has succeeded bebreed improvement would result, and There is no denying the fact that fewer pure-bred scrubs would be per-

Wednesday, October 6. A signing of an armistice between the Russian and Polish delegations at the peace conference at Riga.—A spe-cial police auxiliary is being organized in Detroit to aid in the suppression of crime.—Forest fires are raging in sec-tions of northern Wisconsin.—Antitions of northern Wisconsin.—Anti-suffragists carry their fight against the woman suffrage amendment to the United States Supreme Court.—Anthracite coal miners request President Wilson to reopen the anthracite wage scale.

Thursday, October 7.

GUIDING ships into the New York harbor by a submerged electrically charged channel cable is successfully demonstrated.—A heavy cut in sugar prices is reported from Boston refineries.—The Poles and Russian forces will cease fighting Friday under an armiscease fighting Friday under welcome tice just signed.—Japanese welcome delegates to the world Sunday School delegates at Tokio.— press the English wool market.—Gov-ernor Sproul, of Pennsylvania, is urg-ing rehabilitation of old canals.

#### Friday, October 8.

at Chicago on October 8, was the rec-shipping associations and the formation September 25, by handling 994,687 cars. Prices for meat in France have become so high that consumption is greatly curtailed.—The currency committee of the International Financial Conference in session at Brussels reresentatives of these organizations to mates, described the plan now being investigate live stock marketing prob-tried in Ohio of learning the trend of to be called by Mr. Howard. live stock at markets. A certain num- nipulation of the wheat market.

#### Saturday, October 9:

HE United States District Court orders the dissolution of interlock-ing interests of a number of railroads as follows: "Section 21. The governor and at-torney-general shall each receive an The secretary of state, state treasurer and auditor seneral shall each receive and the during the coming three months for breeding, for milk production as stock problems. He declared that the during the coming three months for owned by the government prove unsuc-meat, for breeding, for milk production cessful.—Reductions in coal prices may be expected soon, according to the American Wholesale Coal Dealers' Association.—Japan's trade for the and the elimination of disastrous of stockers and feeders to be purchas- Association.-Japan's trade for and the elimination of disastrous of stockers and recuers to be parenas. 2. Maintaining a market based pri-marily upon the cost of feeds used in the production of live stock during the using the monthly reports from repre-sentiative formers to heap track of the sentiative fo sentative farmers to keep track of the 000,000,000 marks.

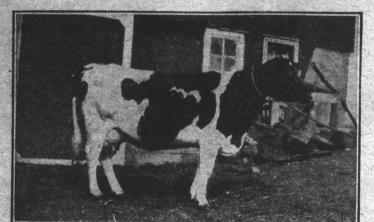
#### Sunday, October 10,

GREECE holds her first post-war election on Sunday, November 7. —Italian employers and workmen have reached a formal agreement and the The proposed amendment to Section var of maintaining the centralized mar-of Article III of the Constitution: kets, as the proper means of meeting monthly plan furnishes a forecast The text of this proposed amend-organized buying power with an organ-which reason it is omitted. Its ef-producer; the establishment of an ade-(Continued on page 499).

farm bureaus because it furnishes no

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# Why the Cow Testing Association?



Here is Convincing Evidence Offered by Roswell Carr, Kent County Agent



Lily-The High Cow, Produced 456 Pounds of Butter-fat.

here was the opportunity and yet it year. These cows were placed in the she not produced more than the others and if it were possible to distinguish could not be done and the Kent County Cow-Testing Association has the proof in the office of the County Farm Bureau to back up these statements.

In the first place, let us look at this herd. A man by the name of Lynn Bradford, of Sparta, went out and bought some cows to start a herd with and then put them in the cow-testing association. He found out what he could about the breedng of the cows but that was very little. They were exhibit to make it just as easy as posgrade Holsteins. They proved to be a sible for the people to guess which one same per cent picked her for worst. off the trail she actually led them good average bunch of cows with the was the poor producer. The high cow This demonstrates to us, and we be- astray. They not only thought she was exception of one which was way be and the low cow were placed in the lieve will to the readers, that she was better than some of the other cows, low the average of the herd. Five out same stall and in the middle of the a good-looking cow from a production but that she was the best in the bunch. of eight of these cows were brought string. Signs were placed up in front standpoint. This placing was done by Some said: "Well, maybe she simply to the fair. These five were straight- of the cows explaining the whole prop- people who have been handling cows had what is called an 'off year'." But backed, deep-bodied, you might almost osition and asking the people to pass and think they know. Twenty-five per she has been on test now four months say show cows, one of them being the judgment on the cows. Furthermore, cent of them picked her for the best of the second year and is doing the highest producer in the whole associa- each one who wanted to place the ani- cow in the bunch. As a matter of fact, same stunt over again. tion, three others being next to the top mals was given a card on which he they were applying what judgment and and one being very low. Following was asked to place the cows in the or- intelligence in the matter they pos- ciation is to locate the cows that are are their records made in the cow-test- der in which he thought they would sessed but at that they might as well decidedly low producers during the ing association covering a period of produce during the year. After he had have shut their eyes and guessed, year and the reason we want to locate one year.

HE object of the Cow-Testing chance that the others had and we ple who would know something about cent of the men placed her first and Association exhibit put on at the would agree if she had done anything cows. It was quite easy to get them some said: "Why, that is easy. You West Michigan State Fair this when she was fresh, but she produced to work on the proposition. A large can see she is a high tester." But one year by the Kent County Cow-Testing during her first month only forty-one number of these cards were filled out of the other cows had a test nearly as Association, was to demonstrate to the pounds of butter-fat and the other four and almost all of them by people who high but did not give milk enough to people that the statement so frequently cows produced 38.5, 31.6, 34.4 and 34.3 were well enough informed so that make her butter-fat total high. Of all made that no one can tell by the looks during that same month after having they handled the animals all over very those who put the high cow first, of a cow what she will produce, is been giving milk for five and six carefully and picked them for produc- some arguing that you could see the true. The exhibit proved this point be- months. So that while we might figure tion with considerable intelligence and high test in her, seventy-three per cent yond any question of a doubt. Fre- that a spring cow does not have quite they demonstrated what the exhibit put the other high testing cow at the quently these exhibits, while having the chance of a big yearly record that was supposed to demonstrate, that it bottom of the list, demonstrating that this same thing in mind have some a fall or winter cow has, at the same is impossible to tell by the looks of a while the high test was present in two conditions which must be overlooked time she should do something during cow what her production will be and cows they could only see it in one. in reaching conclusions. There were, her first month or two at least when that weighing and testing must be This has a tendency to cast a shadow however, in this case, no holes in the she freshened in the spring. These done in order to actually determine. on the statement that they could see program. All of the information was cows all freshened regularly so that in A look at the way these animals the high-test. given to the public except the records, that respect none was at a disadvan- were placed will be interesting. The and the conditions under which the tage. They were all kept in the same low cow was thin in flesh and many of ed to the contrast between the low animals operated were identical. No barn and fed alike. They were prac- the judges picked her for the high pro- cow and the high cow, at the same trickery was employed. If it were pos- tically the same age. The high one ducer because they thought she was time the low cow might have been sible to tell a bum cow by her looks and the low one were born the same worked out. They thought that had compared to any one of the others,

Here Are the Records.

No. Lbs. Milk.	No. Lbs. Butter- fat.	Income Above Cost of Feed.	
Jily 9.283	456.1	\$177.18	
Lula10,362	420.9	157.02	
Jucy 10,469	418.6	160.08	
Lena 8.426	391.6	148.68	
ila 6,024	248.5	50.85	

It will be understood that these rec- was shown the records of the cows er from the truth. ords all started on the same day. The which were on the cards back of the The high cow was a high tester. She drag the average of the herd down

four high cows were winter cows and cows and covered by a blank. An at- did not give quite as much milk as two until we are liable to condemn the the low cow freshened in May. Some tempt was made to get just as many of the other cows, but tested enough dairy business when if we condemned might argue that under these condi- people to place the animals as possible higher to make her total butter-fat a few of the poor producers the dairy tions the low cow did not have the who were dairymen and breeders, peo- quite a bit more. Twenty-seven per

Lila-The Low Cow, Produced 248 Pounds of Butter-fat.

While particular attention was callshe would be in good rig, too, but as the star boarder by the looks we should a matter of fact, the other four cows, have expected that the low cow would each of which had produced far more have been picked as low cow in a big milk and far more butter-fat than this per cent of the cases because the most thin one, were all in good flesh and of the men who guessed had consideryou will remember had all been under able knowledge of the game. Anyone the same care, which goes quite a who placed her above any one of the ways towards proving that just be- others demonstrated that she had foolcause a cow is thin is no sign that she ed them and seventy-five per cent of has been working. Twenty-five per the men did that way and twenty-five cent of the people picked the poorest per cent of them put her first, which cow for best and approximately the indicates that besides throwing them

The big idea in the cow-testing assofilled out his card and turned it in he They could not have gotten any farth- them is because they do not produce enough to pay for their keep and they (Continued on next page).

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At the National Dairy Congress, some of the Finest Dairy Herds of the Country were Exhibited. The Best State Herd was Shown by Minnesota.

# Feed Prices Are Looking Downward Sanders Sosland Reviews Present Situation

general recessions in many months, a ton. consumers are beginning to display a friendlier feeling toward the market. lack of demand rather than from ex- the recessions in barley and barley products has checked demand for high But their friendliness is not apparent cessive production. The output of bran feed, a strong competitor of shorts, the protein feed. Cake and meal can be to the extent that demand for feeds and shorts by mills, in fact, has been wheat feed should undergo a further bought in Oklahoma around \$49 to \$50 has shown a sharp increase or even considerably below normal for the price readjustment which should carry a ton for forty-three per cent protein material improvement. The consuming summer and fall seasons, owing to an the market down to a margin of not prime grades, and around \$46 to \$47 trade considers the fluctuations in extremely light demand for flour and more than \$10 a ton over bran. Hog a ton in Texas. The southeastern marmarket values as conclusive evidence consequent, restricted activity by producers should buy their shorts cau- kets are on a similar basis. Seed has that permanent readjustment from the plants of the country. But pastures tiously and conservatively. war-time levels is now in progress and made such luxuriant growth over the that the changes are not merely the entire west and middle west, being in COTTONSEED feed remains in a fluencing bullishness in cake and meal, seasonable setbacks so often witness- excellent condition even at this time Cather weak position, though un- Crushing operations will soon reach a seasonable setbacks so often witness- excellent condition even at this time tainly warrants such a conclusion.

would materialize during the month. checked. Losses, even more radical than forewith comparatively low levels on within the past month, and, recogniz- for loose slab cake, basis Oklahoma proaches.

ried down sufficiently. The fact that a supply of bran for late fall and win- and the difficulty in obtaining credit. fewer stocker and feeder cattle are ter needs will eventually profit. moving to feedlots and the shrinkage in the holdings of stock hogs on farms, in the shorts market. The heavier offal Europe absorbed the great bulk of our country, are other bearish influences. which must narrow, either by a sub- meal, comparatively small sales havnessed in recent years, markets, and brown middlings. The latter action is to anticipate the probable trend of the this includes feeds to the same extent the more probable. Gray shorts or flour foreign demand. For the present, no as other products, are in a period of middlings are bringing between \$48 concern need be felt, as the exporters well defined deflation of prices. In this and \$52 a ton in Chicago and St. Louis, are balking at the current prices. connection it is well to note that the \$45 to \$47 a ton in Kansas City, \$50 to Feeders cannot be counted upon to break in feeds has been influenced to \$52 in Minneapolis, with brown shorts supply a very broad outlet for cottona considerable extent by the depression in cotton, wool, coffee, sugar, steel products and many other staples, and will continue to feel such changes even though only sentimentally.

O the feed consuming interests of Michigan, the greatest satisfaction parent over the declines in wheat millfeeds, bran and shorts. Bran is now selling at the lowest level in about two years or since the period of control by the United States Food Administration, when prices were fixed on the offal. From the extreme peak of . prices, around \$55 a ton in Minneapolis and Kansas City, and probably around \$60 a ton at points in Michigan, reached in the forepart of May, the market has suffered a setback of approximately fifty per cent, leading milling markets of the west now offering the feed at slightly above \$30 a - ton. Liberal sales of hard winter bran have been made in Kansas City the

changed basis, having under- both spot and October delivery, with is practically no demand, at a discount bought on markets for feeding, owing gone one of the most radical and Minneapolis quoting around \$31 to \$32 of about \$5 to \$8 a ton. Because of to discouragement over the action of

the enormous corn crop and the de- bovine prices in recent months. Also, Millfeed has suffered more from a pression in that grain, together with the tendency to make use of cheaper

ed at this period of the year. A study in most sections, and the stocks of favorable weather for a time the past high point, and markets should then of demand and supply conditions cer- roughage on farms have been in so month caused a temporary upturn in afford a clear idea of the underlying great an abundance as to provide al- prices. Cake and meal have not yet strength of prices. As to whether the consumer should most complete substitutes for the of- reached a price level where purchases As to whether the consumer should accumu- fal. Of course, dairymen have consum- are advisable, further declines being CORN and oats have been on the lating his late fall and winter needs of ed liberal quantities of bran in recent almost generally expected as the Coboggan, and it is a question just corn, oats, bran and shorts, cotton- weeks but they have bought on a hand- crushing approaches its most active at the moment whether the feed grains seed cake and meal, linseed feed, al- to-mouth scale and included far less of period. Demand for the high protein have completed their ride or will refalfa, tame or other hay, commercially the feed in their rations than at this feed from meat animal producers is new the journey after a rest. While it prepared mixed feeds and similar com- time a year ago or in earlier months. extremely light, of an almost insignifi- is recognized that the time is not ripe modifies, is as much of a problem as And it is safe to anticipate no sharp cant volume, but the lack of buying for bullishness on corn, as markets prospective buyers indicate it to be. I improvement in demand through Oc- power from this element has been have yet to feel the weight of the acmade the statement in these columns tober, though, as the weather becomes made up in a measure by the sales to more than a month ago that Septem- colder and stocks of home feed dwin- domestic manufacturers of commercial farms and heavier movement to termiber usually is the low month of feed dle, demand will broaden, or at least fertilizer and to foreign countries. values and that, with a continuation should broaden, to the extent that any Greater interest has recently been dis- grain is stimulating the belief that valof favorable weather, expected declines further declines in prices will be played by export handlers at the sea- ues have reached practically their low board and moderate quantities of cake and meal have been worked to Euro- kets at less than a dollar a bushel, the casted, were witnessed, forcing the av-erage market price of feeds considerably below that of previous months of ready has undergone radical depres- support to the market on the basis of ed. The deferred deliveries, Decemthe year. But I am not ready to say sion, about \$25 a ton within four the current quotations. It is true that ber and May, are quoted slightly below that, even though September closed months, including about \$10 a ton foreigners are paid around \$48 a ton ninety cents a bushel at this writing most feeds, that the bottom has been ing that the downward trend cannot points, but purchases at these figures than sixty-five to seventy-five cents a reached. And this statement is made continue indefinitely, a halt should called for immediate shipment and bushel net to the producer. Oats range in face of the fact that the normal soon be witnessed. Still, bran can yet were for account of short sales previtrend of prices after September is up- decline sharply before reaching a nor- ously made. For later shipment the and like corn, is closer to a pre-war ward, quite often sharply upward be- mal pre-war price, which is less than export bids are at a discount of about basis than any other feedstuff. In view fore the close of the calendar year ap- \$20 a ton, but there is no basis for ex- \$5 a ton and in instances even more. of the low levels reached on the grain, pecting such a figure for many months The belief is generally expressed that Not in a great many years have or for the remainder of the crop year. foreigners will not become heavy buyfeedstuffs as a whole been available in Bran may yet ease off further in price ers unless values recede below \$40 a that the corn crop is of enormous prosuch an abundance or offered prospect to reach a relative parity with competi- ton for forty-three per cent cake and of such enormous production as this tive feeds, but this is about the extent meal in Oklahoma and Texas. Nor is feed of every kind is in great abundseason. In a very large measure, this of the losses to be expected, if even it probable that they will be enormous is the basis for the belief that the re- this. I rather incline to the view that buyers even on that basis, owing to that the feed grains can yet safely deadjustment of values has not been car- the dairymen who begin now to lay in the abnormal relationship of exchange cline further. abroad. However, the fact must be There is less bullishness noticeable remembered that in the pre-war period pointing to reduced consumption in the still is at a sharp premium over bran, production of cottonseed cake and business might look good. We are quite also, instead of further inflation of sequent upturn in the dairy feed or ing been made to domestic feeders commodity values, as has been wit- further depression in the gray and then. With this in mind, it is difficult

First Stallion and Three Mares at International Belgian Horse Show.

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OW that feedstuffs are on a past few days around \$31 a ton for or standard middlings, for which there seed feed. Fewer cattle are being advanced slightly in price, but can yet share further sharp upturns before in-

> tual grain both by enlarged stocks on nals, the extremely low price of the point. Cash corn is available on maron middle west markets, hardly more further extreme bearishness is not advisable. Still, when it is recognized portions, the largest in history, and ance, one is almost ready to conclude

#### COW-TESTING ASSOCIATION.

(Continued from preceding page). positive that Mr. Bradford would not have located this poor cow in this herd had the milk not been weighed and tested and it is quite evident from the herd he picked up that he has an idea of what they ought to look like, and we believe we are safe in drawing the conclusion that in most every herd there are some individuals like this one that stay in the herd year after year producing at a loss and simply because the owner does not actually know what the cows are individually producing. We have had men tell us that they could do the same thing with their herd that the cow-testing association does. We agree with them that they can, but when a fellow tells that he does do the same thing with his herd that the cow-testing association does, we generally quit talking with him because we are afraid we might question his veracity. In other words, the owner can do it but he does not do it. The Kent County Cow-Testing Association is doing good work but it is only testing twenty-five herds out of thousands that exist in the county. There ought to be more interested in this kind of work and there ought to be more such exhibits as was put on at the West Michigan Fair to demonstrate beyond a question of a doubt the value of the work.



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# Trade Stabilized Through Cooperation A \$25,000,000 Business Handled by a Producers' Marketing Company

By Herman Steen

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until the industry was nearly down Rosa, of Sonoma, and of other districts marketed through the eight or ten big Every grower received the same er when they have any money in their and saw them follow each other into inated the dried fruit business of the of fruit. pockets," said the theorists. They early graves. Because of the lack of a Pacific Coast. They had to provide won't cooperate until they are com central agency to gather information, warehouses and packing sheds, secure any more. Every grower has the same pelled by dire necessity to do so. They direct sales and weld the business of an outlet for the product, and above chance at the market as every other won't learn the principles of coopera- the locals together, the locals quarrel- all, had to finance the undertakingtion until they have gone broke, or at ed among themselves and went to piec- all in one short summer. least are badly bent." This idea was es. It reminds one of the sage saying It is a tribute to the resourcefulness countings are made to the growers for so generally accepted at one time in of Benjamin Franklin, "We must all and skill of the leaders in this new every separate quality and size of fruit California that most students of coop- hang together, or we will hang separ- movement that the prune and apricot they produced. When the year is over eration regarded it as one of the fun- ately." damentals to success in cooperative marketing.

ized, and their industry was distinctly and vice versa. on the up-grade. For several years before 1917, there had been some money Finally in the spring of 1917 the since. temporary prosperity.

when the prune growers' organization They began looking upon the proposi- all the dried fruit produced to the as- the whole crop which the association

appeared in a year or two because the California Prune and Apricot Growers, Inc., soon developed into the nearest approach to perfection that has come out of the cooperative marketing movement in California.

Ups and Downs of Prune Growing.

The cause of the alternate periods of depression and prosperity which formerly prevailed in the prune industry was thus described to me by Sheridan W. Baker, a leading grower in Santa Rosa county. "We produced prunes the best we knew how," he said. "A high degree of skill in production was developed among the growers. A period of good prices always resulted in stimulating the industry and inducing larger plantings. When these new trees came into bearing,

orchards being pulled out.

surely as day follows night. I have seek the same markets. Local Associations Failed.

of attempts to organize in periods of the entire confidence of the growers, occasionally offer one grower a premi- "This has been one of the fundamental depression as long ago as 1900, but as he had helped previous organiza- um in order to cause trouble in the reasons for the success of our marketthe organization thus formed soon fail- tions sell the crops of their members, association." ed. Growers in each prune-growing Developing Machines for Marketing. community formed separate associations, but the speculators played one the intrepid souls working with him ty-six packing plants of its own, and asking the government to put a repreagainst the other and broke up the lo- had succeeded in getting seventy per has arranged with other packers to sentative of the public on its board of cal associations.

ure of the local unit as the basis for crop to the association for a term of ed, standardized and packed. The gradcooperative marketing been demon- years. They had developed a brand ing is according to quality and size.

zation could not be a success prune growers in Santa Clara, of Santa crop of prunes, which had always been a considerable extent the price, also.

Another thing which kept the prune chine-like fashion, almost like it had for equal quality of fruit. growers from uniting, was the jealousy always gone through the new channel. Along came the prune growers in which existed between various' sec- The association fixed a price upon the 1917 and dropped a bomb upon this tions. Santa Clara growers were sure prunes it controlled, sold them at that at the time the crop is delivered to theory. The prune growers were rea- that their prunes were better than price and paid the growers the money the association. This is about twosonably prosperous when they organ- those grown in the Santa Rosa district, received, less the cost of handling the thirds of the amount expected to be

#### A Broader Viewpoint.

made in producing prunes. Growers growers did succeed in uniting upon had suffered a good many ups and one proposition-that they were not downs in times past however, and they getting their share of the consumers' like the raisin growers, citrus growers banks of California have learned that organized to make permanent their prime dollar. "Prunes are selling too and all other cooperative organizations there is no better security than the The old theory was badly shattered what we get for them," they said. growers which binds them to deliver ciation, because that note is backed by started operations. It completely dis- tion from the standpoint of the indus- sociation plants. If a grower fails to handles for its members.

crop and marketing it. That same pro- paid for that grade that year. In order cedure has been followed each year to make the first payments, it is nec-

The Contract with the Growers.

high in New York in comparison to in California, has a contract with the note of a cooperative marketing asso-

H. G. Coykendall is General Manager while Mrs. R. G. Wallace Looks After Sales.

#### there was a period of over-production try and not from the standpoint of in- do so, he may be sued for breach of ing board is the same as the voting and low prices, and this resulted in dividual growers or of districts. When contract, in fact, a few such suits are trust of the raisin growers, described the point was reached, it was easy to brought each year to make examples in detail last week. "Soon the pendulum swung to the organize a state-wide association of of a few flagrant violators. other extreme, and we were riding on market prunes. The apricot growers the crest of prosperity. The money joined, too, as apricots and prunes the courts to be legal and binding," governor of the state to represent the

cent of the prune and apricot growers handle its fruit through their houses. directors!" Nowhere in California has the fail- in California to pledge their entire The prunes are dried, processed, grad-

that was made the good years was lost grow in the same districts, are proc- said Manager Coykendall. "We do not public. A number of California coopin the poor years that followed as essed and handled much alike, and spy on the growers to see whether or erative associations have this public not they are fulfilling the contracts. representative. observed, too, that this same rule ap- For general manager of the new as- The other growers take care of that, plies to nearly all kinds of farming ex- sociation, the prune growers selected and public opinion as a matter of fact, liberate bid for the support of the gencept where stabilization has been af- H. G. Coykendall, part producer and is the agency which keeps contracts in eral public, as the cooperators believe fected by cooperative organization." part packer, a shrewd business man force. The chief and almost only that the people will be back of any inwho knew the prune game as well as agency which causes these contracts stitution which they believe is oper-The prune growers made a number any man knew any business. He had to be broken is the speculators, who ated with due regard for their rights.

#### Getting Ready to Market.

HERE used to be a theory that strated more strikingly than in the new marketing machine to handle a The number of prunes per pound dea cooperative marketing organi- prune industry. Time after time the one hundred and ten thousand ton termines the grade of prunes, and to

and out. "Farmers won't work togeth- formed their separate organizations speculative firms which formerly dom- price per pound for the same quality

There is no speculating in prunes grower, and nobody has any advantage. The crop is pooled, and separate accrop of 1917 moved to market in ma- all have received the same rate of pay

Financing Crop Movement.

An advance to the growers is made essary for the association to borrow large sums of money. This was for-The prune and apricot associations, merly very difficult to do, but the

> As the prunes are sold, money comes in, the notes for the advances are taken up and the growers are paid the difference due them. It takes nearly a year for final payment to be made, though from seventy-five to ninety per cent of the sale price is received by the grower in the first three months after crop delivery. An Organization With-

out Profit.

The California Prune and Apricot Growers, Inc., was at first a stock company but was changed this year into a non-profit organization without capital stock. Each grower now pays a membership fee of \$10. The growers by districts select a voting board of thirty-nine, which elects the directors, who in turn have executive direction of the affairs of the company. The vot-

The voting board elects all the di-"Our contracts have been held by rectors but one, who is chosen by the

This public representation is a deing associations." declares Aaron Sapiro, attorney for several of the organ-In four months time Coykendall and The association now operated twen-izations. "But imagine the railroad

> The Growers Determine Prices. In August each year the board of di-(Continued on page 492).



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CHICE

## With Cloverland Farmers

grow mature peaches at all, it is eral and certain other rights. obvious that our supply of this fruit The Weekly Weather and Crop Bulmust largely be supplied from territory letin issued by the office of the United to the southward. With peaches sell-States Weather Bureau at Grand Rap-ing at retail as high as six dollars per ids, mentions killing frosts as having bushel in this territory, and with peach- occurred in the upper peninsula on es rotting in the lower peninsula, as we September 19. This applies only to hear it, for lack of a market, it is obvi- certain areas. The high table land exous, too, that something is wrong with tending throughout the western half our system of distribution. Here is of the peninsula from Negaunee to something for the state director of Ironwood, with elevations from seven markets or the Michigan State Farm hundred to fourteen hundred feet Bureau to think about. Probably the above Lake Superior, has had such farm bureau, at least, has done some frosts, although a week ago I saw corn thinking already. The problem is not near Ironwood as yet uninjured in this easily solved. We shall soon have a way. There is likewise a low, swampy similar situation as regards apples, region in the eastern half of the dispears, etc. The upper peninsula is a trict where early frosts may be expectlarge importer of fruit, in spite of the ed. It is otherwise along the lake excellent crops grown in certain limit- shores, hundreds of miles in extent, ed areas; and it is willing to pay a where the lakes temper the atmosgood price for it. It would be for the phere. Thus there have at this writmutual advantage of farmers in the ing been no killing frosts in Marquette fruit belt of Michigan and of consum-. -- or any frosts for that matter, and ers north of the straits if this market- peach trees, corn, tomatoes and other ing problem could be solved.

week, of eight hundred bushels of That the upper peninsula is a great whose products largely go to market coming to have an interest in the vast by boat rather than by road or rail. deposits of high-grade limestone found Such a place is the peninsula from in the eastern portion of the district, Garden to Point Detour in eastern Del. whose calcium carbonate content runs ta county, whose produce and live as high as ninety-eight per cent and stock mainly go to Escanaba by water occasionally higher, when water is refrom Fairport, Sac Bay, Fayette, and moved. Five carloads of limestone Burnt Bluff. At the latter point, farm- were brought into Marquette county ers have themselves combined to erect this spring by local farmers as a soil a dock and warehouse. This is on the corrective, obtained in this case from Lake Michigan shore, while on the Sault Ste. Marie, where it is to be had Lake Superior shore, Skanee on Huron as a cast-off by-product but in a highly Bay ships to Houghton in the copper pulverized form adapted to farm use. country by water-the most direct and Much of the product of our limestone practicable route. Thus, this season, quarries goes to the steel works at considerable amounts of apples have Sault Ste. Marie, Ontario, and Duluth, gone to market this way. Around Ska- to the copper smelters of the copper nee is some exceedingly attractive country and to carbide plants. Only farming country, the farmers being the coarsest pieces are removed, the chiefly Swedish; but the place is far finer pieces being dumped as waste. off the railroad, and the lake is the Eventually an agricultural demand for most available transportation route this waste material may conceivably until December.

What is farm land in the upper peninsula worth? I have had occasion to make some inquiries in this direction, Thus the rate from the quarry at Fireaders. The appraiser for the Federal Land Bank of St. Paul, in whose territory this section of the state is situated, finds the highest priced farm lands to be located in the counties of Menominee, Delta, Chippewa, and Houghton, where appraisals run as high as one hundred dollars per acre with actual sales at a higher figure. Occasionally, too, this valuation is attained in Marquette county. The assistant state leader of county agents as \$150 per acre, he says. Normally, their farmsteads are passed as one proof improved farm lands sell at \$50 to \$60 per acre, I am told by County Agent L. R. Walker. On the other hand, we have large tracts of cutover lands—there are estimated to be 12,-000,000 acres in the whole state—whose in the whole state—whose hand, we have large tracts of cutover Wanted To lease good trapping ground for JOHN SKARIN. Route 3. South Haven, Mich.

HETHER or not the upper pe- Bay sells at \$15 to \$20 per acre. These ninsula shall ever be able to large companies usually reserve min-

garden vegetation are as unfrosted The arrival in Sault Ste. Marie, this now as at any time this season.

peaches by boat from Pentwater and storehouse of the raw materials of inother south Michigan points, illustrates dustry is well known, but how varied the importance of water transporta- are its mineral products are scarcely tion in this section. There are farming appreciated even within the district districts lying near the lake shore itself. The farmers of the region are arise, for it is exceedingly cheap, and the railroad companies which handle it -the "Soo Line" and the "South Shore"-transport it at a low rate. born to Duluth, before the recent advance of freight rates, was \$1.62 per ton; to the copper country, \$1.48 per ton, and to Marquette, 94.5 cents per ton. The two railroads are now handling about fifty carloads per day of this limestone.

The Michigan Pioneer and Historical Society expects to hold its 1921 upper peninsula meeting at L'Anse, in conjunction with the annual Indian campmeeting held at Pequaming on the for the upper peninsula, places the miles distant. The L'Anse tribe of shore of Keweenaw Bay, some ten most valuable farm lands in Menomi. Chippewas has had a reservation there nee county, where the range is as high since the Indian Treaty of 1854, and in Marquette county the better grades ceeds along the beautiful drive on the

#### L. A. CHASE.

values run from \$7.00 to \$20 per acre. ers procure their next year's supply, One railroad holding nearly 200,000 Prof. J. F. Cox, of the Farm Crops De-acres of land in the northern peninsu-la offers its cut-over lands at \$7.00 up. la offers its cut-over lands at \$7.00 up. in four years it can be purchased now Another concern which has some 19, at a relatively low price. The Michi-000 acres southeast of Marquette, is gan crop is in good condition and an excellent yield is reported in most sec-tions. Many farmers who have been forced to seed thinly for the last few operating on the peninsula between years are buying from neighbors this beparting on the pennsula between years are buying from heighbors this. Huron and Keweenaw bays has sold fall, a practice which the Farm Crops eighty "forties" at from \$10 to \$15 per acre, while another lumber company seed is best for planting within the

## Stumping the Stumps By A. W. Hopkins

namite and T N T which have been ing dynamite to lift the stumps and

consin during the last four years were and grubbed out the rest. loaded on cars, the train would be nearly three miles long; and if the there for years was just grubbing and stumps which have been blown out by chopping and this idea looked good. I explosives were gathered in a pile at started work on the railroad then Madison they would build a heap six along with the gang that was digging

Wisconsin celebrated the completion wonder if we could lift those stumps of a tremendous program which called with a little dynamite why we couldn't for the clearing of eighteen thousand blow them out of the ground with a acres of land in 1920; and not only has little more. The idea worked, and af-Marinette reached its goal but it has ter that I have used dynamite for blowa grand total of more than twenty ing stumps ever since." And then the thousand acres of land cleared within odd part of the story came along. Here the present year. "You can't bluff a was a man who had been clearing land pine stump," has been the slogan for thirty or forty years, yet this is

F the seven million pounds of dy- heard anything like it. They were usused for land clearing in upper Wis- loosen them and then they chopped

"What we had been doing back times larger than the state capitol. stumps. We did just as they had been On October 12, Marinette county, doing for a while and finally I began to



#### Placing the Charge.

the foremost states in land clearing.

Consigned to the Ash-heap. stumps have gone the road to the ashheap; a stump puller or a blast of dynamite or T N T, then a huge pile of was started a few years ago, the dynatwisted broken pieces of roots and mite which has since played such an stumps, and lastly a smouldering heap important part in land clearing was of ashes signals the departure of the not in use. The original dynamite constump patch. Stumps are burned in tained large quantities of nitro-glycerthe modern stump clearing program ine and generally caused the so-called rather than left at the side of the field "dynamite headache;" it was higher

.for "cottontails." strations, and even personal solicita- and lastly, it was less efficient comtion on the part of the cooperating per- pared with the present explosive. sons have made stump clearing work stumps for years told this story: gest noise you could think of coming than with the old-fashioned explosive. from the place where they were putting through the roadbed. We never

which has placed Wisconsin among what he said: "And I want to tell you right now that I come to your meetings and demonstrations and learn Tough pine, two, three, four-foot something new from them every time."

Cheaper Dynamite Used. But when the work with dynamite to harbor insect pests, or as a burrow priced; it froze readily and was therefore less convenient in thawing it; Land clearing trains, field demon- there was always more or less danger,

Then in cooperation with one of the popular even with men who have been large powder companies came a close blasting stumps for years. At a meet- study of the problem and the manufacing held just a few days ago, an old ture of "twenty per cent" dynamite, dynamiter who had been clearing which has greatly reduced the previous objections. And the nitro-glycer-"It was along back when the first ine content has been cut so low that railroad came through the country, there is much less injury possible from when all of a sudden we heard the big the poisonous gases or from handling

T N T Use Developed. Particularly effective use has been



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made of the government's waste T N 000 pounds has meant a direct saving has been increased over five million \$300,000. Demonstrations and cooper-T, the high power explosive used so of \$182,000, for the land clearers. largely during the war and for which. there appeared to be no use when the have been cleared and the valuation buying, they have been saved nearly had its effect and the business of clearwar ended. Seven hundred and fifty thousand pounds of it have been used in 1919 and 1920 for stumping purposes, saving the farmers in actual cash outlay over one hundred thousand dollars

Distribution costs have been cut through the work with county agents. Not only has there been a great saving by dealing in carload lots, in original cost, but the storage expense has been taken away completely. The dealer handling dynamite in small lots. storing it out in the country and having to drive out every time someone wants a few pounds, must charge at a conservative estimate, seven cents a pound more than the farmer payswhen he gets the explosive from the car. In 1920 this reduction on the one hundred and thirty carloads, or 2,600,

THE MICHIGAN FARMER

dollars through the assistance render- ation of all concerned in the develop-Thus, while over 75,000 acres of land ed the farmers in better methods of ment of upper Wisconsin has indeed



Potatoes Are the Money Crop.

ing stumps has not only become statewide but it has attracted the attention of organizations from all over the United States.

In the language of one of the men most interested in the work, "This land clearing work is brg. It is bigger than any one man working up there can ever conceive. We rough it up there, but let me tell you that it's worth it, worth getting along without a white collar for weeks. You bet it is." It is estimated that the use of dynamite in 1921 will easily amount to five million pounds, as against three million pounds used in 1920. It is no proposition of even making two ears of corn grow where one grew before, but it is making a dozen potatoes grow where poplar brush' and pine stumps dominated the soil of Cloverland.

## Estimates of Michigan's 1920 Crops Although Prospects for Potatoes Declined, the Outlook for Corn, Beans and Sugar Beets Improve During the Past Month

in some important sections. Corn, beans and sugar beets made gains the state's crop is estimated at 34,760,000 past month, and all of the fruits except and the United States crop at 414,986, grapes are yielding a larger crop than 000 bushels as compared with 28,688, expected. With the exception of spring 000 and 357,901,000 bushels, respectively last near beans and sugar beets made gains the wheat, all crops included in the October inquiry of the joint crop reporting service, under the direction of Verne H. Church, Agricultural Statistician, United States Bureau of Crop Esti-mates, and Coleman C. Vaughan, Secretary of State, are well above the tenyear average.

Wheat.—The winter wheat crop is estimated to have been 12,855,000 bush-els; a yield of fifteen bushels per acre. The spring wheat crop is very poor, both in quantity and quality. The estimated production is 462,-000 bushels, the estimated yield per acre being 11.0 bushels. Therefore, the state's total wheat crop is placed at 13,317,000 bushels. Of this amount, 28 per cent was marketed up to October 1, or 3,729,000 bushels. The amount marketed during September was 2,301,-000 bushels.

• Corn.— While late in ripening, the absence of frost in September until near the close permitted it to mature very uncertain. It is well-eared except in a few southwestern counties that suffered severely from a drought lasting nearly the entire season. The condition is 92 per cent as compared with 88 per 22 per cent as compared with 88 per cent one month ago. If all of the acreage, including that for silos, were matured for grain the total production would be 63,690,000 bushels, or within less than 1,000,000 bushels - of last year's crop.

Oats.-Notwithstanding the unfavorable conditions early in the season, an each bird. Overcrowding is a sure is not sure how many birds have been average yield of 38.5 bushels per acre method of reducing poultry profits. Af- lost and the necessary protection will was obtained. This yield was only exceeded in 1915 and 1918 during the last sixteen years. The total production is placed at 55,671,000 bushels. The feeding value of the crop is relatively good, but owing to discoloration by rains in some sections, those going into market channels are necessarily lowered in grade.

The estimated yield is 27 bushties. els per acre, making a total crop of 6.966.000 bushels as compared with 5,-320,000 bushels produced last year. The United States crop is 25,000,000 greater than last year.

Potatoes .- The outlook for potatoes prospects in some of the best potato districts. Kalkaska county dropped from 93 to 57 per cent in condition; eral extra birds to remain as some and cuts feed bills.

A S the end of the season approaches, the condition of the principal crops remains well above the average in Michigan. The warm, dry weather and almost entire absence of frost during September was generally favorable. There was no material decline in the prospects of any crop except potatoes, which are showing disappointing yields in some important sections. Corn. the nature and extent of the damage from which is not yet manifest. The tively, last year.

Buckwheat.—The crop in most sec-tions is well filled and the outlook is Sugar Beets.—The condition of sug-for 36 per cent of a crop, or 706,000 ar beets is 92 per cent, two per cent bushels. Last year's crop was 662,000 better than last month, six per cent bushels. The crop of the United States better than last year, and nine per

be marked to fill the house.

Clover Seed .- The information secured through the inquiry relative to vield indicates the average to be 1.9 bushels per acre, or a total crop of 144,000 bushels. Last year's crop was estimated at 101,000 bushels. The Unit-ed States crop is also nearly 50 per cent greater then had your being critic cent greater than last year, being esti-mated at 1,576,000 bushels.

quality is generally good except in the northwestern counties, where scab is unusually prevalent. The crop is so abundant that the market has been very dull and many have not been har-vested, as the price that could be obvested, as the price that could be ob-tained was insufficient to compensate the cost of picking and handling. For the United States, the crop is estimat-ed at 227,978,000 as compared with 147,-457,000 bushels last year. The esti-mated pear production in the state is 990,000 against 426,000 bushels last year. While the crop of grapes is large, the production in some localities proved to be less than estimated last month. The condition on October 1 was 92 per cent. was 92 per cent.

#### SUGAR BEET GROWERS PUT HEADS TOGETHER.

Inventory the Farm Flock ON some farms at this time of the may not turn out as well as expected year the poultry flocks consist of and occasional accidents may injure two hundred to five hundred birds of some birds. all ages. Some will be early hatched

The custom of saving all of the pulstock of good development and vigor. lets causes poultry losses. Young pul-Stock of good development and vigor. lets causes pointry losses. Found put State Farm Bureau to consider a plan Others will be late hatched and of less lets are always in demand by breeders for cooperative marketing of the 1921 value. Often the exact number of birds who have not raised enough for their crop of sugar beets. Growers are ready of all ages is not known and this own use Nothing is gained by keep. makes the plans for fall and winter ing too many pullets (for the housing capacity when some of them can be It pays to check up all the birds at turned into cash while giving the renight and know exactly how many of maining birds a chance to earn more each sex and age are on the farm. cash.

This not only helps to control poultry . The inventory tells the farmer just stealing from thieves and other pests what he has for sale. On some farms but gives the farmer a definite idea of raising large flocks of poultry the ownhis poultry business for the coming ers cannot guess within a hundred year. The early-hatched pullets can birds of the number on the range. If Genesee, be marked. Only save enough of them rats or weasels take birds the fact Eaton, Allegan, Gladwin and Menomto fill the farm poultry house, allow- cannot be determined. If a poultry ing four square feet of floor space to thief robs a colony house, the owner method of reducing poultry profits. Af- lost and the necessary protection will ter culling the old hens and deciding not be given to the flocks at night.

which are to be saved for breeding stock, enough of the best pullets can poultry raising when the flocks are Check over the cockerels and if none to be saved can be banded and then first meeting in Chicago, Octob

A conference of sugar beet growers from twenty-four counties has been called at Lansing on October 19, by the State Farm Bureau to consider a plan lish their own refineries and manufachish their own remeries and manufac-ture their product, or contract to sell the whole of their crop through one agency after the Californian plan which has already been adopted by the Ohio sugar beet growers, according to the State Farm Bureau. Counties that will have sugar beet men at this meet-ing are Tuscola, Saginaw, Sanilac, Isa-bella, Gratiot, Huron, Bay, Arenac, Wayne, Shiawassee, St. Clair, Ottawa, Monroe, Macomb, Lenawee, Lapeer, Genesee, Midland, Ingham, Clinton, Eaton, Allegan, Cladwin, and Monroe inee.

FARMERS' GRAIN MARKETING COMMITTEE MEETS.

More profit will come from farm THE grain marketing committee of poultry raising when the flocks are represented and rational represented and rati seventeen, represented and raticulled early in the season. The birds fied by all'farm organizations, held its are to be saved to sell as breeders, the remainder can be sold as soon as This is the first definite step of all save the best for home use and mar- they reach a marketable age, either farmers of America to create a grain Barley.—The quality is generally ket the remainder as soon as they for broiler meat or breeding stock. It marketing system which will eliminate good except that many fields were dis-reach the broiler age. This will save is not the number of birds in the flock speculation and stabilize prices. The feed and give the pullets a better op- but the quality of the stock that de- committee divided into five sub-comportunity to develop if both sexes are termines the returns. Of course, a mittees to make a special study of cousing the same range. If enough early large flock of good birds will bring operative marketing methods, cost of hatched birds have been produced it more money than a small flock but of- marketing, storage and transportation, does not pay to save the late-hatched ten a large flock of all ages running consumption and export and finance. stock and more annual income from together eats up the profit from the The committee on cooperative marketpoultry can be made by selling both good birds. The inventory enables the ing methods will make a study of evhas dropped six per cent during the poultry can be made by selling both good birds. The inventory enables the ing methods will make a study of ev-past month. This material decline is the pullets and the cockerels from the poultryman to save what he needs and ery type of marketing organization in due to a pronounced falling off in the late-hatched stock. In saving the cock- give the remainder of the birds the the United States and report to the erels for home use it pays to allow sev- prompt culling which brings in money next meeting. The next meeting will R. G. K. be held November 4-6.

DAIRY FEED

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with their chilly winds offer a mighty good reason for giving special attention to the feed of Dairy Cows.

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N the western New York peach belt provides a flat tax of one per cent, in the growers would sustain heavy losses and the business man would be largely interstate commerce commission was hand, has the major portion of his bus-

the cooperative association which con- the farmer on his principal tool of protrols the marketing of the western duction, the very thing which the fac-New York peach grop, telegraphed to tory owner and the merchant ask to the Washington office of the American be exempted in their case." It will re-Farm Bureau Federation for assist- quire the united efforts of all the farm ance. Gray Silver, the Washington organizations and the farm press corepresentative, took up the matter operating on a well defined program with the interstate commerce commis- of action, to protect the interests of sion, and within twenty-four hours the the farmers when congress takes up number of available cars in the district the matter of tax revision. was considerably increased and in five days the railroad was delivering THE war department in cooperation enough cars to handle the crop, and T with the United States Departcold storage.

propaganda to impress upon the minds ington. This work was begun in April, of the people that there are vast quan- 1919, by authority of the secretary of titles of wool stored not only in the United States, but in Australia, Argen- year, and the results so far provide tina and other countries. Many such convincing evidence in favor of the opreports are appearing in the daily pa- eration of the Muscle Shoals nitrate pers. Gray Silver, of the Farm Bureau Federation, points out that this surplus for the most part is coarse, low-grade wools for which there is little demand in this country and which has accumulated because of the inability of Germany and Australia to purchase the usual amounts used by their manufacturers.

proposition. An extensive campaign orate rapidly, as does any unused inwill be made to bring the matter to dustrial plant. the front in congress. Representatives of the German government, in, this ents and farm organization representcountry have said that the great need atives visited the laboratory at Washin Germany now is for our farm prod. ington, a few days ago, and inspected ucts, wool, wheat, meat, and other sup. the highly interesting and successful plies from the farms. They would buy experiments now being carried on. The large quantities if congress would pass functions of this fixed nitrogen rea bill giving Germany credit against search laboratory are the investigation the funds held here by the alien prop. of methods of fixing nitrogen by the erty custodian. There is a bill now Haber, cyanamid, arc and other procpending in congress which relates to esses, and the investigation of meththis German credit plan; but a new ods of disposing of nitrogen projects bill which it is believed will better in agriculture and other uses. A twenmeet the requirements, will be intro- ty-acre plot in Alabama is used in pracduced early in the next session of congress.

American Farm Bureau Federation is mid seems to show up equally as favengaged in research work, studying orably as Chilean nitrates in crop personal credits and income tax legislation. All phases of taxation as they affect the farmers will be investigated find the best means of applying it to for the purpose of formulating a pro- prevent damage to the plants. The gram of action which will be referred experimenters used eighty pounds to to the farmers with the expectation the acre, which is much more than the that after careful study"it will be re. farmer would use in field distribution. flected in the farmers' demands on As cyanamid will not take the place congress.

ity for the statement that "no matter this purpose. who is elected president, congress will be called into extra session late in ufacturing has been considerably less March or early in April to revise the than the prevailing prices revenue laws and place the United of nitrates now on the markets. Tests States on a peace time financial basis. are being made to develop forms of ni-Our finances must be demobilized just trates, easy to handle, safe for the as our army was."

dertaken in the session of congress which will convene soon after the election this fall, it will surely come up for. Mike Oliver says that the best lookests back of the Nolan bill, which is a it, is just to keep things looking sort single land tax measure. This bill of neat and homelike.

100

this fall, the crop reached maturity addition to all other taxes, upon all without the usual preparation of land values in excess of \$10,000, exthe railroads to handle it. Early in cluding, however, the value of all the the shipping season there were five buildings thereon. Commenting on the hundred cars needed a day to move Nolan bill Gray Silver says that "usuthe crop, with an actual supply of less ally but a very small proportion of the than one hundred cars. Many peaches production capital of a manufacturing were placed in cold storage, but there plant or business establishment is in was still remaining the prospect that land. Consequently the manufacturer unless more cars were provided. The exempted. The farmer, on the other appealed to with no apparent results. iness capital in land and would be tax-In this emergency the manager of ed heavily. This bill proposes to tax

the peaches were also moving out of ment of Agriculture is conducting ex-Certain interests are conducting a work at a large laboratory near Washtensive experiments in nitrate fixationplant. This plant, which cost \$72,000,-000, is fully equipped with a capacity for producing by the cyanamid process an output of 40,000 tons of fixed nitrogen per year, an amount equal to 250,-000 tons of Chilean nitrates. The plant was tested out in 1918, and a small quantity of fixed nitrogen produced, but since then it has remained idle, HE American Farm Bureau Feder. and "unless operated by the governation is pushing the German credit ment or private interests will deteri-

A party of farm paper correspondtical trials of the various forms of fixed nitrogen in actual crop production. The Economic Committee of the In these experiments up-to-date cyanagrowth. Cyanamid must be handled carefully, and tests are being made to of Chilean nitrates as a crop forcer, Senator Oscar Underwood is author. ammonium nitrate will be produced for

In the experiments the cost of man-Torm crops, and economical in production, If no tax revision legislation is un. also that may be used in combination with other fertilizing elements .- E. R.

action when the extra session is called ing farm places are not always for in March. There are powerful influ-sale. He figures out that the best way ences working for repeal of the excess to sell a farm if you want to sell it or profits tax and equally powerful inter- to enjoy keeping it if you want to keep

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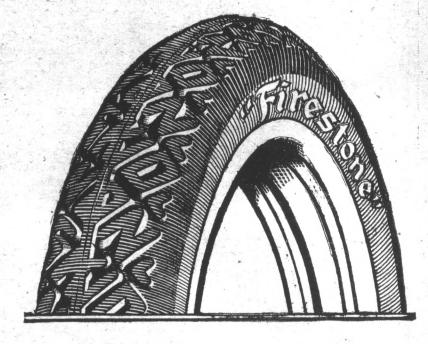
Sales of this tire increased 96% for the first six months of this year. The result justifies the effort because the stamp of approval has been set by the public on the Firestone  $3\frac{1}{2}$ —the balanced tire.

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# Our Service Department

#### LATE MATURING LIMA BEANS.

Can you tell me what to do with my lima beans? The vines are full of green pods, but very few are ripe, and am afraid they will not get ripe beand dry them so they will be good to shall be no liability on such person cook? If so, how long will it require in damages or otherwise for such kill-to dry them? Will a light frost spoil them?—Mrs. E. F. D.

beans in the dry form, would advise his owner's agent shall constitute a you to let them remain on the vines as long as you can, or until a heavy ant of such field or other enclosure, or frost occurs, unless they show matu his agent or servant, may kill such rity before the frost comes. If the pods dog while it is in the field or other turn brown before frost it is well to enclosure without liability for such pick them off and shell the beans. They should not be kept in a place tion it shall be unlawful for any perwhere there will be too many of them son other than a police officer to kill, together until they have thoroughly injure, or attempt to kill or injure any cured.

If the beans do not mature before current year. frost occurs you will find it better to can them than to attempt to dry them. violating or failing or refusing to compods to be thoroughly matured in ap- act shall be deemed guilty of a misdeenough matured to keep well after sentenced to pay a fine not exceeding matured so that you can keep them the discretion of the court. without canning. C. W. WAID.

#### LEG WEAKNESS.

Why do my little chickens have leg weakness and what is the cause? Is there any way to prevent it? Genesee Co.

Mrs. C. H. to develop the body without increasing the strength of the bones. Mineral es. cess in using them.

We also give the chicks all the kill such dog. ed. ashes from the brooder stoves and they seem to crave the bits of ash and DIFFERENCE BETWEEN STOCK. mineral matter which they contain. R. G. K.

## DOG LAW.

What is the penalty for wounding or killing a dog that is running at large,

the 1919 dog law, contains the following provisions:

side of any incorporated city running important than weight.-H.

at large unaccompanied by owner or keeper.

Sec. 19. Any person may kill any dog which he sees in the act of pursuing, worrying, or wounding any live stock or attacking persons; and there enclosure outside of an incorporated If you much prefer to have the lima city, unaccompanied by his owner or private nuisance, and the owner or tenkilling. Except as provided in this secdog which bears a license tag for the

Sec. 26. Any person or police officer However, it is not necessary for the ply with any of the provisions of this pearance for the beans to be well meanor and upon conviction shall be they are dried. With the lateness of \$100, or imprisonment in the county the season, it would seem that you jail not exceeding three months, or to should be able to get them sufficiently both such fine and imprisonment at

Sec. 27. Nothing in this act shall be construed to prevent the owner of a licensed dog from recovery by action at law from any police officer or other person, the value of any dog illegally killed by such police officer or other person.

Sec. 28. Nothing in this act con-Leg weakness of little chicks is of- tained shall be construed as limiting ten caused by a lack of protein in the the common law liability of the owner ration. Too much starchy feed seems of a dog for damages committed by it. C. L. 1915, Sec. 7271, also provides: The owner or keeper of any dog matter and protein are obtained by which has been chasing, worrying, the chicks from drinking plenty of wounding, or killing any sheep, lamb, sour milk and eating beef scrap and swine, or cattle (not the property of ground bone in the dry mash. If you such owner or keeper) out of his endo not have time to mix up growing closure, or which has assaulted or bit mashes it might pay to buy a few hun- ten any person while peaceably walkdred pounds of the commercial mash- ing or riding out of the enclosure of They contain a balanced ration the owner or keeper, shall within fortyfor the development of young chicks eight hours after having received noand many poultrymen are having suc- tice thereof in writing, cause such dog to be killed. For every neglect so to Early hatched chicks often develop do, he shall forfeit the sum of three leg weakness from spending too much dollars, and the further sum of one time on the hard brooder house floor. dollar and fifty cents for every forty-It does not occur often if the young eight hours thereafter until such dog chicks are from vigorous stock and fed shall be killed, unless it shall satisfacon a ration containing plenty of bone torily appear to the court before which building material. Our chicks have a a suit shall be brought for the recovfree range and plenty of sour milk and ery of said penalty that it was not in no cases of leg weakness have appear. the power of such owner or keeper to J. R. R.

## ERS AND FEEDERS.

In regard to the article on "Uniform Live Stock Classes and Grades," in your issue of September 25, the question arises, what is the difference be-tween a "stocker" and a "feeder?" Newaygo Co. J. G. R.

and can the owner of the dog collect Feeders are cattle in such a state of or sue for damage for dog being development and flesh that they are Feeders are cattle in such a state of wounded or killed, whether license has suitable for placing immediately on a Kalamazoo Catalog feed of grain so that they may be fin-Public Acts 1919 No. 339, known as, ished for market within a feeding pehe 1919 dog law, contains the follow ag provisions: Sec. 17. The sheriff shall also kill, n complaint from the prosecuting at-it is desirable to carry them upon a complaint from the prosecuting at-it is desirable to carry them upon a complaint from the prosecuting at-it is desirable to carry them upon a complaint from the prosecuting at-it is desirable to carry them upon a complaint from the prosecuting at-it is desirable to carry them upon a complaint from the prosecuting at-it is desirable to carry them upon a complaint from the prosecuting at-the form on complaint from the prosecuting at- it is desirable to carry them upon a torney, any dog that is in the habit of rough feed for a period before starting torney, any dog that is in the habit of rough feed for a period before statuting running at large unaccompanied by the feeding of grain. Usually cattle the owner or his agent. Weighing over 750 or 800 pounds are Kalamazoo Stove Co., Mfrs. Sec. 18. It shall be the duty of ev- feeders, while those weighing less than ery police officer, on complaint, to kill that amount are stockers. However, any dog or dogs which are found out- the degree of condition or flesh is more



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#### OCT. 16, 1920.

#### THE MICHIGAN FARMER

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#### CRIMSON RAMBLERS HAVE MIL. DEW.

My crimson ramblers had pink blos-soms this year and the leaves were covered with a sort of meal. What is the matter and what shall I do? Are the plants dying and losing vigor from this cause? Ingham Co. L. J. J.

The trouble with the roses is the rose mildew, caused by a fungus which is growing on the leaves and sapping their strength. This fungus (Sphaerotheca pannosa) is extremely common and the symptoms you describe fit its effects upon the rose very well. This mildew lives over winter in the cottony tufts which are formed about the thorns on the stems. It is advisable to trim the bush so as to rid it of these holdover places. Then in the summer when the temperature at noon gets above eighty-five or ninety degrees it is advisable to spray or dust the bushes frequently with some sulphur preparation. For a dust, fine sulphur in a cheesecloth bag or in a regular dusting outfit does good work. For spraying a dilute lime sulphur solution made by using the commercial lime sulphur at 1-40 strength is good. Weekly applications are advisable until the control has been accomplished. Sulphur is a specific for mildews, but it takes hot air conditions to make the sulphur active in killing the fungus. G. H. C.

#### TRANSFERRING OF BEES.

Can you give me any information regarding the transferring of bees from one hive to another?-Mrs. E. M.

Transferring of bees should be done any time from the beginning of fruit bloom to the end of the clover honey flow. It is not advisable to attempt to transfer bees during the late summer or fall. There are several methods of transferring, each of which I will very briefly describe.

#### Direct Method.

By this method the combs are cut out from the box hive or gum and the bees brushed from these combs into a modern hive which is placed in the exact location of the old hive. After the bees have all been transferred a queen excluding zinc should be placed over the entrance so that the queen cannot get out. This precaution will often prevent colonies from leaving the new hive. It is supposed that all of the frames in the new hive are fitted with full sheets of comb foundation. It is sometimes advisable to fill one of the frames with brood and honey taken from the old hive. This will provide food for a day or so and will usually prevent the colonies from leaving. This comb should later be removed. If the colony which is being transferred has any disease, then none of the comb should be taken to the new hive. Care must be used in this method, to see that at no time after the transferring the colony runs out of food.

#### Slow Method.

This is a method which is very popular with many beekeepers because of its simplicity. First remove a portion of the brood comb from the center of the hive to be transferred, examine it carefully for disease and if any disease is found this colony cannot be transferred by this method. If free from disease tip the old hive upside down and set the new hive on top, placing a good cover over it. Before placing the new hive on top remove as much of the wood from the sides of the old hive as possible so as to let the light slip in between the combs. Bees do not like to work where exposed to the light and they will therefore abandon the old hive much sooner and move up and take possession of the new one. The Michigan Agricultural College, Department of Entomology, is prepared to furnish to beekeepers a complete bulletin on the subject of transferring. B. F. KINDIG.



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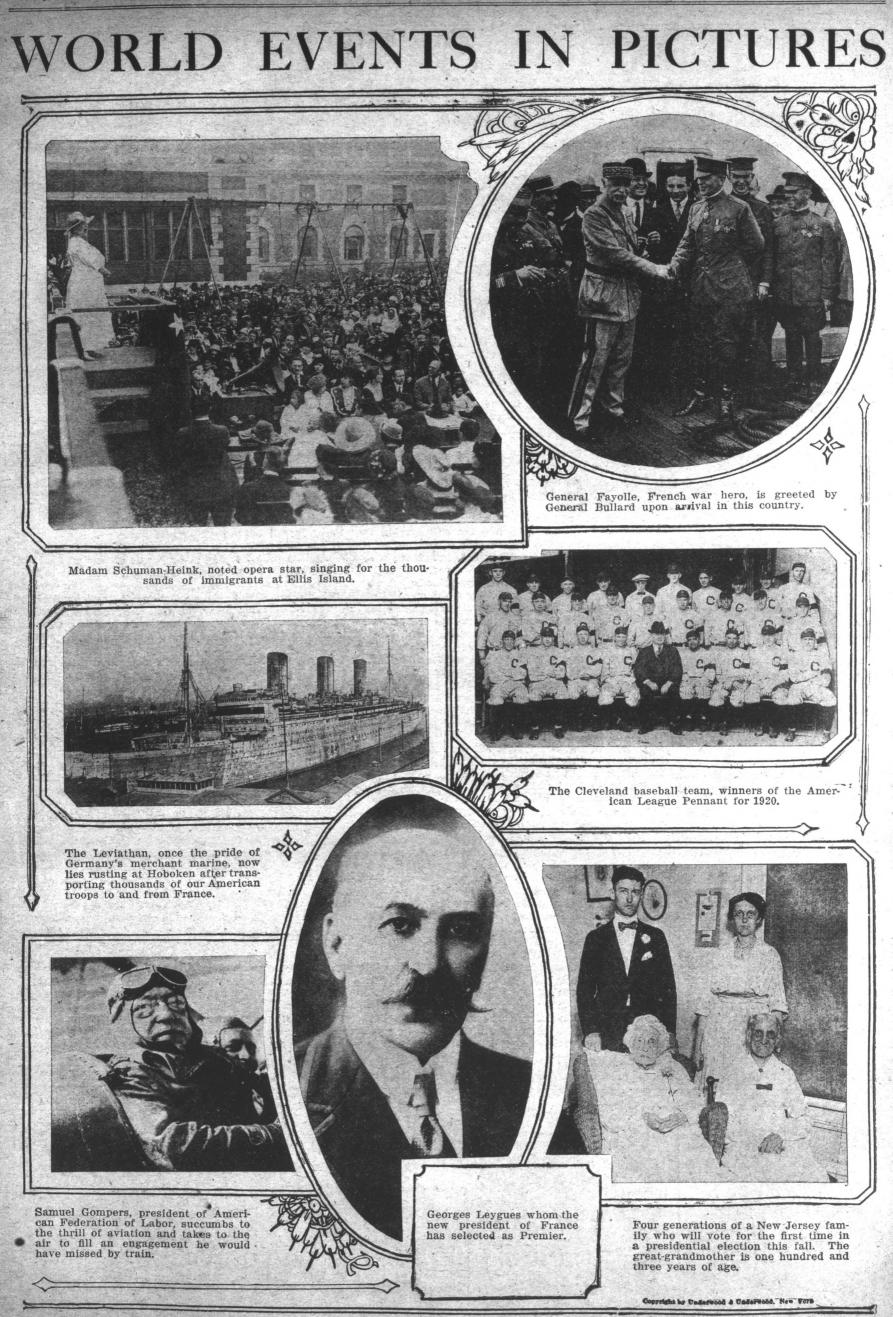
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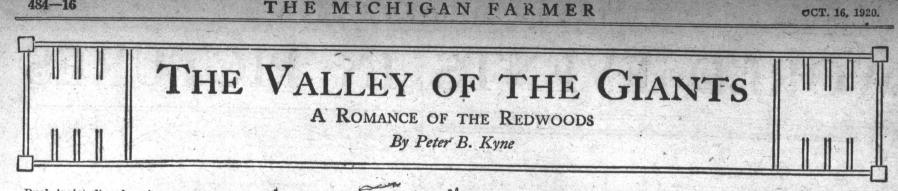
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#### OCT. 16, 1920.





Buck insisted on keeping an engagement to dine with Moira, and Bryce agreed to call for him at the Bon Gusto restaurant. Then Bryce went home to dine with his father. Old Cardigan was happier than his son had seen him people nowadays to have as much re- and piled them close to the sidewalk. I give you permission to depart." quoia.

pleasant afternoon," he declared as Buck Ogilvy came out of the Bon

"Bryce was, amazed. skid-road is impassable, and after you house, and rolled noiselessly away. leave the end of the skid-road, the trail. with buckthorn and wild lilac I doubt Harding, the bull-donkey engineer, ton calmly. if a rabbit could get through it com- placidly smoking his pipe in the cab. fortably."

"Not a bit of it," the old man replied. "Somebody has gone to work and planked that old skid-road and put up a hand-railing on each side, while the tell him we're here. Have him gather president and general manager of the Colonel thrust his head out the cab trail through the Giants has been grub- his gang and bring two pairs of over- N. C. O., and I am engaged in the bed out and smoothed over. All that alls and jumpers-large size-with blithe task of making a jump-crossing old logging-cable I abandoned in those him when he comes." choppings has been strung from tree to tree alongside the path on both and Buck Ogilvy climbed up into the consent, but now that you are here together and phone for Rondeau and sides. I can go up there alone now, cab and glanced at the steam-gauge. that hope, of course, has died a-born- his woods-crew. Send the switch-enonce George sets me on the old skid- "A hundred and forty," he announced. in'. Have a cigar." And he thrust a gine and a couple of flats up for them. road; I can't get lost."

"How did you discover this?" Bryce demanded.

owner, called round this morning and order they clambered aboard the en- He was deluged with dirt. took me in tow. He said his client gine and tender, hanging on the steps, knew the property held for me a cer- on the roof of the cab, on the cow- you please. "You're in the way of the bile, intending to climb in and make tain sentimental value which wasn't catcher-anywhere they could find a shovellers," Buck Ogilvy warned him Pennington's manager a prisoner also. transferred in the deed, and so the toe-hold. Harding cast aside the two soothingly. Judge had been instructed to have the old ties which the careful engine-crew skid-road planked and the forest trail had placed across the tracks in front sight of him Pennington choked with speed down Water street, leaving the grubbed out-for me. It appears that of the drivers as additional precau- fury. the Valley is going to be a public park, tion; Buck Ogilvy cut off the air; and able to say more. after all, but for the present and while the locomotive and tender began to I live, it is my private park."

admitted. "Guess the new owner must the Cardigan lateral, swiftly gathering ing unsafe for this big mogul." He Into your car and on your way." be one of my old friends-perhaps speed. A quarter of a mile down the looked Pennington over with frank ad somebody I did a favor for once-and line Buck Ogilvy applied the brakes miration. "You're certainly on the job, onel answered, and there was a metalthis is his way of repaying. Remember and eased her down to twenty miles Colonel. I'll say that much for you. lic ring in his voice. He looked at his the old sugar-pine windfall we used to per hour. sit on? Well, it's rotted through, and bears have clawed it into chips in their Buck backed briskly up into the La- trod on." search for grubs, but the new owner guna Grande woods, and coupled to had a seat put in there for me-just the two loaded flat-cars. The woods- ton almost screamed. "Til have the of woe and breezed away. the kind of seat I like-a "lumberjack's gang scrambled aboard the flats, and law on you for grand larceny." rocking-chair made from an old vine- the train pulled out for Sequoia. Forty gar-barrel. I sat in it, and the Judge minutes later they rumbled down Wa- your engine. For all you know, your he drove up to the business center of left me, and I did a right smart lot o' ter Street and slid to a grinding halt own engine-crew may have run it down the town. The streets were deserted, thinking. And while it didn't lead me at the intersection of B Street. anywhere, still I-er-'

suggested.

know the name of the owner," he said tools. Under Buck Ogilvy's direction ed gently. "Having gone this far, I For a moment he stood, his cold, ophidpresently. "I'd like mighty well to say the dirt promptly began to fly, while would be a poor general to permit you ian glance circling the room until it

since the return of the latter to Se- spect for sentiment in an old duffer "Well, sonny, I've had a mighty makes me feel as I hadn't sold at all." the picks and the clang of metal. been up to the Valley of the Giants." Bryce, with George Sea Otter at the tracks?" "Why, how wheel of the Napier, drove up to the Bryce turned in time to behold Col- plied. "I guess you've got the bulge on

Bryce hailed him.

"That you, Jim?" "You bet."

"Good enough!"

From the darkness of Cardigan's drytwenty picked men of the mill-crew Poundstone's little flivver. John Cardigan nodded. "I'd like to now emerged, bearing lanterns and Not tonight, at least," Bryce retort- ber of poker-games were in progress.

Suddenly a voice, harsh and strident like me as the fellow has. He sort of with passion, rose above the thud of

"Who's in charge here, and what in your car, and gag you." Bryce led him to the dinner-table. "I've Gusto restaurant with Moira, just as blazes do you mean by cutting my

could you?" he demanded. "The old curb. They left Moira at her boarding onel Seth Pennington leap from an au- me, young man. Do you mind if I sit in tomobile and advance upon Buck Ogil- the warm cab of my own engine? I At nine o'clock they arrived at Car- vy. Ogilvy held a lantern up to the came away in such a hurry I quite forin to mother's grave is so overgrown digan"s log-landing, and found Jim Colonel's face and surveyed Penning- got my overcoat."

"Colonel," he began with exasperat keep you company." ing politeness, "-I presume you are of your rails. I had hoped to accom- cutting in a crossing. He's holding me Harding vanished into the darkness, plish this without your knowledge or here against my will. Get the mill-crew perfecto under the Colonel's nose. Phone Poundstone. Tell him to have Presently the woods-boss, accompa- Pennington struck it to the ground the chief of policenied by thirty of his best men, came and on the instant, half a dozen rough "Judge Moore, representing the new down to the log-landing. At Bryce's rascals emptied their shovels over him

"I'm the N. C. O.," Bryce replied. glide slowly down the almost imper- "Nice little fiction that of yours about Pennington's neck. "You win, Col-"It's mighty comforting," his father cleared the switch and slid out onto shops and the Laurel Creek bridge be- come of holding you here any longer. The man who plans to defeat you must watch in the glare of a torch. "Plenty At the junction with the main line jump far and fast, or his tail will be of time," he murmured. "Curfew shall

here."

"I'll attend to you, sir," Pennington was still open. "You felt better, didn't you?" his son ing-yard, where they had been waiting replied, and he turned to enter Mayor . Pennington strode through the bar

discovery. You'd be down here in an hour with a couple of hundred of your mill-crew and give us the rush. You will oblige me, Colonel Pennington, by remaining exactly where you are until "And if I refuse-"

"Then I shall manhandle you, truss you up like a fowl in the tonneau of

To Bryce's infinite surprise the Colonel smiled. "Oh, very well!" he re-

"Not at all. I'll sit up there and

Half an hour passed. An automobile Colonel Pennington-my name is Bu- came slowly up Water street and pauschanan P. Ogilvy, and I am in charge ed half a block away, evidently recon-"Run up to Jabe Curtis's shanty, and of these operations. I am the vice noitering the situation. Instantly the window

"Sexton!" he shouted. "Cardigan's

Bryce Cardigan's great hand closed over the Golonel's neck, while down Water street a dark streak that was "Stand back, Colonel, stand back if Buck Ogilvy sped toward the automo-He was too late, however. Sexton Bryce Cardigan came over, and at swung his car and departed at full "You-you-" he sputtered, un disappointed Buck to return panting to the scene of operations.

Bryce Cardigan released his hold on "This is perfectly amazing, partner." ceptible grade. With a slight click it the switch-engine being laid up in the onel," he announced. "No good can

"Thank you, young man," the Colnot ring tonight." Quite deliberately "You've stolen my engine," Penning- he climbed into the mayor's late source

Colonel Pennington did not at once "Tut-tut! You don't know who stole return to his home, however. Instead, but one saloon-the Sawdust Pile-

and into the back room, where a numthank you to him. It isn't usual for the woods-crew unloaded the rails to escape now with the news of your came to rest on no less a personage-

#### AL ACRES-Percy Believes in Delivering the Product as Near to the Consumer as Possible.



#### OCT. 16, 1920.

than the Black Minorca, an individual with whom the reader has already had some slight acquaintance. It will be recalled that the Black Minorca led the futile rush against Bryce Cardigan that day in Pennington's woods.

The Colonel approached the table where the Black Minorca sat thumbing the edges of his cards. and touched the cholo on the shoulder. The Black Minorca turned, and Pennington nodded to him to follow; whereupon the latter cashed in his chips and joined his employer on the sidewalk. Here a whispered conversation ensued, and at its conclusion the Black Minorca nodded vigórously.

"Sure!" he assured the Colonel. "I'll fix 'em good and plenty."

Together Pennington and the Black Minorca entered the automobile and proceeded swiftly to the Laguna Grande Lumber Company's mill-office. From a locker the Colonel produced a repeating rifle and three boxes of cartridges, which he handed to the cholo, who departed without further ado into the night.

Twenty minutes later, from the top of a lumber-pile in Cardigan's dryingyard, Bryce Cardigan saw the flash of a rifle and felt a sudden sting on his left forearm. He leaped around in front of the cowcatcher to gain the shelter of the engine, and another bullet struck at his feet and ricocheted off into the night. It was followed by a fusillade, the bullets kicking up the freshly disturbed earth among the workers and sending them scurrying to varoius points of safety. In an instant the crossing was deserted, and work had been stopped, while from the top of the adjacent lumber-pile the Black Minorca poured a stream of lead and filthy invective at every point which he suspected of harboring a Cardigan follower.

"I don't think he's hurt anybody," Buck Ogilvy whispered as he crouched with Bryce beside the engine, "but that's due to his markmanship rather than his intentions."

"He tried hard enough to plug me," Bryce declared, and showed the hole through his sleeve. "They call him the Black Minorca, and he's a mongrel greaser who'd kill his own mother for a fifty-dollar bill."

"I'd like to plug him," Buck murmured regretfully.

"What would be the use? This will be his last night in Humboldt County--"

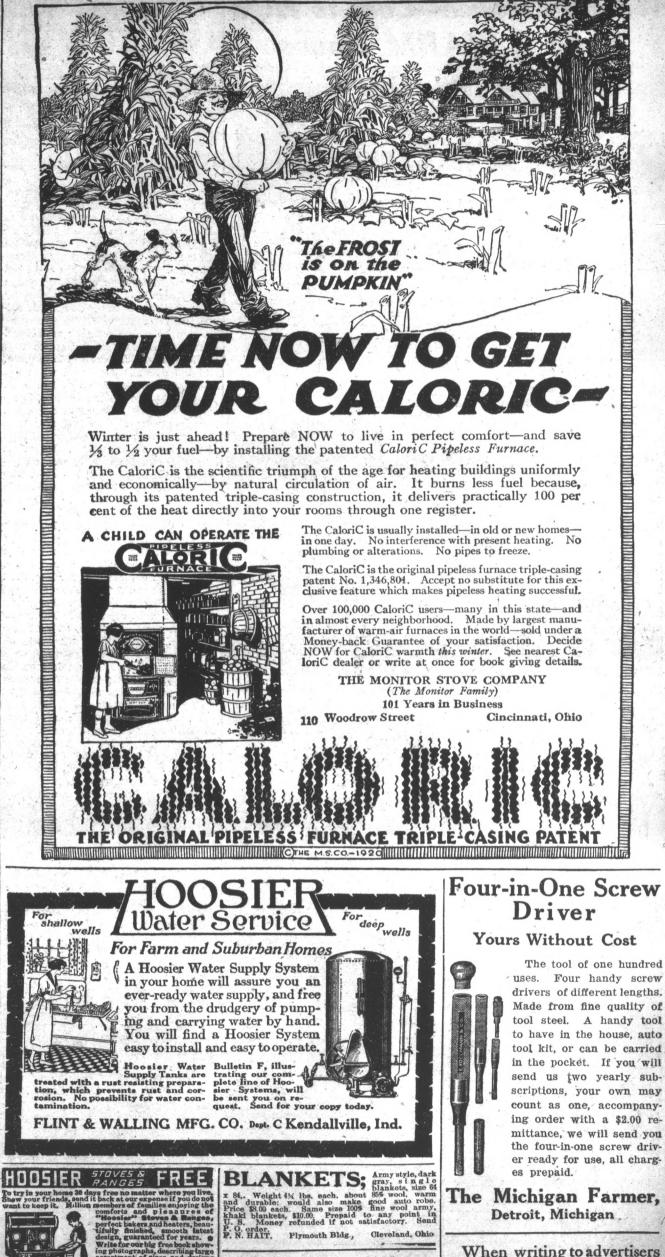
A rifle shot rang out across the side of B Street; from the lumber-pile across the street, Bryce and Ogilvy heard a suppressed grunt of pain, and a crash as of a breaking board. Instantly out of the shadows George Sea Otter came padding on velvet feet, rifle in hand—and then Bryce understood.

"All right, boss," said George simply as he joined Bryce and Ogilvy under the lee of the locomotive. "Now we get busy again."

"Safe-o, men," Ogilvy called. "Back to the job." And while Bryce, followed by the careless Geoge Sea Otter, went into the lumber-yard to succor the enemy, Ogilvy set an example to the men by stepping into the open and starting briskly to work with a shovel.

At the bottom of the pile of lumber the Black Minorea was discovered with a severe flesh-wound in his right hip; also he was suffering from numerous bruises and contusions. George Sea Otter possessed himself of the fallen cholo's rifle, while Bryce picked the wretch up and carried him to his automobile.

"Take the swine over to the Laguna Grande Lumber Company's hospital and tell them to patch him up," he or dered George Sea Otter. "Til keep both rifles and the ammunition here for Jules Rondeau and his woods-gang, They'll probably be dropping in on us about two a. m., if I know anything about Colonel Pennington's way of doing things." (Continued on next page).



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that are

stuccoed.



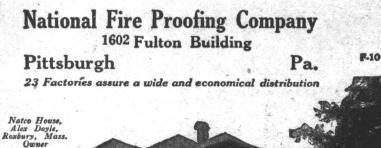
WITH the winter winds howling and the cold creeping through the thin weatherboards, the family in grandfather's boyhood hugged the stove a little tighter, while someone fetched another armful of wood. But today, firewood is fast disappearing and the cost of coal climbs steadily higher. The remedy is a *warm* house-built of

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# Men and Trees

Our Weekly Sermon-By N. A. McCune

worth watching As one blast of wind altitude. And trees for that reason followed another, the tree was ready. are the symbol of aspiration. They A branch might break, the top might get the far look. They typify large be carried away, but the body of the and high ideals. As Joyce Kilmer said, tree stood firm. It had been prepar- "A tree that looks at God all day, and ing for that battle, for years. Far be- lifts its leafly arms to pray." An emilow, the roots, like military reserves, nent writer says that this generation were called for special duty. A thou- of Americans is prone to wander in sand, a million of them, spreading in the direction where the greatest ex-all directions, were holding the trunk citement lies. We are not given to firmly in its place. That is a symbol steady, upward development which of the strength of the man whose trust creates the finest manhood. The trees is in God. The roots of faith and trust in our front yard will teach us better, go far into the bosom of God. "Though an host should encamp against me, my T HE tree is a parable of life. In such a should not fear." "God is our refheart shall not fear." "God is our refuge and strength."

A furniture manufacturer states that er. In autumn, it ceases toil, drops its the March winds make the best grain, leaves and prepares for rest. There is and the grain is developed when the no haste, no hurry, and there are no tree springs back, after a gust of wind. regrets. Everything is done at the People who are never called on to re-sist, are under-developed in character. sons of the soul. Neglect them, and A young man who was in France with the loss can never be fully replaced. the American army, recently had this There is the season of childhood, when told of him, by his pastor. He was a religious impressions remain, are sergeant, and his captain was an im- planted in the soul. Then comes the moral man, openly and brazenly. The age of adolescence, when most of life's sergeant rebuked him for the example great choices are made. And adulthe was setting his men. No non-com- hood follows fast, with its burdens and misisoned man is supposed to repri- its toil. Trees exhibit forethought, fremand an officer, and it went hard with quently to a far greater degree than the sergeant. He was reduced to the their human neighbors. When autumn ranks, and life was made miserable comes, they prepare for winter. Firs for him. He bore it in grim silence. are warmly clad, while deciduous trees One day his captain sent for him. Said drop their leaves, so that with naked he: "I've been thinking about this and branches they may, like athletes, the way I've treated you. I'm going wrestle with the winds and blasts of to live straight after this. Tomorrow February and March. The sap recedes you take your old place, as first line to a large extent, into the inner parts sergeant."

you count the rings. The record of descend, we are ready! I say, humans each year's growth is there. No year are not all as wise as that. They do has been left out. There have been not prepare for the inevitable. And a no "off years," and no idle ones. Look- man is a fool, he is a simpleton, who, ing back can we say that each year knowing that death, eternity, are behas added to our growth? Or have we fore him, makes no preparation to that stood stationary? There are people, end. The dumb, immovable, unfeeling not a few of them, who have not grown tree in yonder field exhibits more ina particle for twenty years in anything telligence than he. except age, and they will deny even that. They have the same notions are solemn. They have their own lanthey had years ago. They have not guage, in which they seem to converse broadened, greatened in any particu- of the mighty matters of life, death, lar. Such persons may well go to the and immortality. The oak roars, elms nearest oak and learn one of the great and maples speak out plainly, while lessons of life.

aimlessly over the ground, but the oak, whom sin has not marred. "The rightthe elm, the white pine attain height. eous shall flourish like a palm tree," A tumbleweed will travel farther in says the Psalmist.

REES talk to us of strength. Did a season than a tree will in a hundred you ever watch an oak or an elm years. The tree devotes its energies battling with a storm? It is to traveling upward. It specializes in

spring it puts forth new life. In summer it bears its burden of fruit, or Trees become strong by resistance, spreads its shade for the tired travelof the trunk and the root system. Thus TREES grow. It is an impressive ter, come on! Let the winds blow, let prepared, they can say to Father Winmoment when a tree is felled, and the blizzards rave, let the mercury

Trees speak to us of eternity. They the tall white pines whisper to each other in a tongue that has no oaths, A TREE grows because it remains in and contains no unclean thoughts. one place. A squash vine wanders They are like a race of clean men,

## The Valley of the Giants

CHAPTER XXXI.

orca to hold up the work until at the intersection of Water and B Colonel Pennington fairly burned the our line." streets en route to his home. He real- He dashed into the living-room, and for him that night, and he was desir- the telephone. ous of getting into a heavy ulster before venturing forth again into the cool down the stairs, pausing behind the night air.

The violent slam with which he clos- living-room. ed the front door after him brought to the staircase.

"Uncle Seth!" she called.

below.

"What's the matter?"

The state of the

(Continued from preceding page). swered. "That fellow Cardigan is back of the N. C. O., after all, and he and AVING dispatched the Black Min- Ogilvy have a gang of fifty men down the arrival of reinforcements, streets, cutting in a jump-crossing of

that there would be no more sleep she heard him calling frantically into

"At last!" she murmured, and crept heavy portieres at the entrance to the

"That you, Poundstone?" she heard Shirley, in dressing-gown and slippers, him saying rapidly into the transmitter. "Pennington speaking. Young Bryce Cardigan is behind that N. C. O. "Here!" he replied from the hall outfit, and it's a logging-road and not intended to build through to Grant's \* Pass at all. Cardigan and Ogilvy are "There's the devil to pay," he an- at Water and B streets this very in-

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#### OCT. 16, 1920.

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stant with a gang of fifty men cutting in a jump-crossing of my line, curse them! They'll have it in by six o'clock tomorrow morning if something isn't done-and once they get it in, the fat's in the fire.

and the state

"Telephone the chief of police and order him to take his entire force down there if necessary, and stop that work. To blazes with that temporary franchise! You stop that work for two hours, and I'll do the rest. Tell the chief of police not to recognize that temporary franchise. He can be suspicious of it, can't he, and refuse to let the work go on until he finds you? And you can be hard to find for two hours, can you not? Delay, delay, man! That's all I want. . . . Yes, yes, 1 understand. You get down about daylight and roast the chief of police for interfering, but in the meantime!. Thank you, Poundstone, thank you. Good-bye."

He stood at the telephone, the receiver still held to his ear and his right forefinger holding down the hook while the line cleared. When he spoke again, Shirley knew he was calling his mill-office. He got a response immediately, notwithstanding the lateness of the hour.

"Sexton? Pennington speaking. I've sent over the Black Minorca with a rifle and sixty rounds of ammunition. . . . . What? You can hear him shooting already? Bully boy with a crockery eye! He'll clean that gang out and keep them from working until the police arrive. You've telephoned Rondeau, have you? . . . Good! He'll have his men waiting at the loglanding, and there'll be no delay. As soon as you've seen the switch-engine started for the woods, meet me down at Water and B streets. Sexton, we've got to block them. It means a loss of millions to me if we fail-"

Shirley was standing in the doorway as he faced about from the telephone. "Uncle Seth," she said quietly, "use any honorable method of defeating Bryce Cardigan, but call off the Black Minorca. I shall hold you personally responsible for Bryce Cardigan's life, and if you fail me, I shall never forgive you."

"Silly, silly girl!" he soothed her. "Don't you know I would not stoop to bush-whacking? There's some shooting going on, but it's wild shooting, just to frighten Cardigan and his men off the job."

"You can't frighten him," she cried passionately. "You know you can't. He'll kill the Black Minorca, or the Black Minorca will kill him. Go instantly and stop it."

(Continued next week).

#### Sunshine Hollow Items By Rube Rubicon

recently entered the Tragedy Slumpkins home. Old Ned Slumpkin came out of the barn with his face drawn white. Little Wilson Slumpkin screamed in pain. Sister Bedelia buried her face in her hands and wept. The back tire on the Nubbin had blown up. They had no spare tire and only a half hour to get over to the lake in time for the picnic dinner.

Percy Ivory has been kicked off the times steps at Tin he is beginning to believe that old man Tinker doesn't want him to call on Margorie any more. Old Thomas Tinker is a rabid Republican and Percy is going to get even by pasting pictures of Gov. Cox all over the Tinker house where Thomas can't reach 'um.

.

Little Theda Morgan said, "Oh, the devil," right out loud when the aid society was meeting at Morgan's place. Mrs. Morgan said, "Why, Theda, where did you ever hear such language?" Theda innocently replies, "Don't you remember what you said yesterday, Mamma, when you dropped the custard pie."

6



带空的进业市 所在门口

THE MICHIGAN FARMER

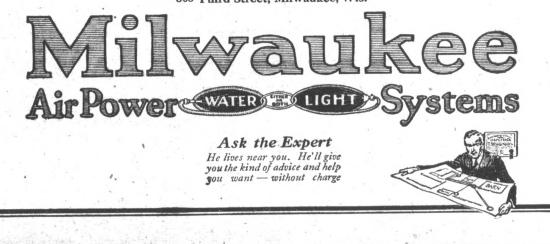
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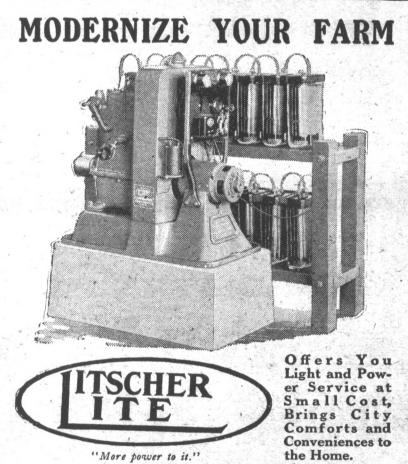
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and you'll like it better than coffee because it is a table drink of satisfying flavor, with no after regrets, and it costs less.

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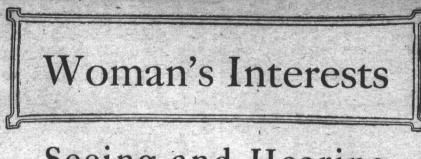




Runs on a small amount of kerosene, oil and water. Easily installed. Operates with practically no attention. Furnishes power for all electrical, motor driven appliances, belt driven machinery and lights the home and barn with brilliant electric light all at the same time.

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## Seeing and Hearing

but exercise the dormant ninety per job to be done or the next pleasure to cent, there is no height too high for be enjoyed. us to scale, no depth too deep for us to plumb, according to men who go your own particular job brings you to about making a living telling the rest of us how to succeed. We have eyes to see, but we see not, ears to hear of their power, seeing, too, what makes but we hear not, is the crushing in- your neighbor forge ahead while you dictment hurled at us, and therein lies stay in a rut, this is one big factor in our failure to forge ahead.

Everyone who has ever taught school or had any experience with humanity in the mass, knows that the last statement is true. Announce a lesson to a class, and five minutes after the chil- ure is to shut our ears to criticism. dren return to their seats nine out of ten hands will be wildly waving and Johnnie and Mary will be asking what tomorrow's lesson is to be. Probably half of the class will insist that you sometimes, but only the foolish refuse didn't give out any. Make a statement before the whole room full of children today, and tomorrow not more than should try to inculcate in children. one can give a correct version of what How much nervous energy we waste you said. Half may be able to give a telling them the same thing over and more or less garbled account, and the over again. I wonder if their lack of other half will swear they never heard attention is not largely due to our anything about it.

Grownups are no better. Who can and insist on their attention when we tell on Monday more than an occasion- give a command or make a request? al remark the preacher made on Sun- Or do we shout it over our shoulder as day? Even the announcements are we hurry by them, intent on our job, mixed. Was the social to be on Tues- while they are equally as intent on day or on Thursday night? You don't their own? I wonder if we took the know because you didn't hear. And time directly after breakfast to have you didn't hear-not because you are the orders of the day given out to boys deaf-but because only one tiny brain and girls who were required to sit still cell was concerned with listening, and and listen, if we could get through a

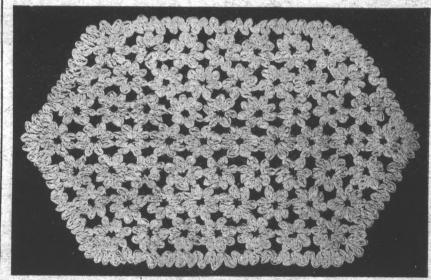
in hand., That is the real reason for

ODERN efficiency sharks are tell- most failures. Instead of doing the ing us that we use only ten per thing of the moment and doing it right. cent of our brains. If we would we let our attention wander to the next

> Without a doubt, concentrating on success. Using your eyes to the extent success. You can use your ears, too, to listen to everything which bears on your job. Listen to suggestions and to criticisms, whether they are made in kindness or not. One big help to fail-None of us really enjoy having our faults pointed out, but if we really want to grow, there is one of the best aids known to man. It hurts, of course, to profit by it.

Listening is a habit which mothers own? Do we stop what we are doing the rest absorbed in something else. day with just once telling? It would We don't concentrate on the thing be worth trying a few times at least. DEBORAH.

## Daisy Table Mat -By Helen Combes



hot dishes. It is simple and inexpen- neighbor by two petals, ten daisies in sive, the daisies being made from the center, then sew two next rows white linen or cotton tape, and the by one petal each, to the center and centers from yellow cotton perle.

thread across it diagonally, until when third row of eight daisies and the ginning with half a petal, seven whole is made of a row of tape with the diagpetals, half a petal. Join the two half onal gatherings. petals together neatly underneath. The set of mats consists of two mats are close together in the center.

together in the middle and cover the ning with eight and ending with six.

THIS mat is one of a set made to sewing on the right side with protect a polished table top from French knots. Sew each daisy to its to each other, the second row from The tape is gathered by running a center consisting of nine daisies, the gathered up, it forms eight petals be- fourth of seven daisies. The outer edge

drawing the daisy so that the petals the size of the one shown, two beginning in the middle with nine daisies With the cotton perle, sew the petals and ending with six, and two begin-

OCT. 16, 1920.

#### OCT. 16, 1920.

#### MACHINERY OF GOVERNMENT.

S TATE officers in Michigan hold office for two years, their term beginning on January 1 in odd years. They are elected every two years at the November elections and are governor, lieutenant-governor, secretary of state, state treasurer, auditor-general, attorney-general, superintendent of public instruction, and state highway commissioner.

Besides these officers who are elected by the people, we have several appointed by the governor with the approval of the state senate. These appointed officers' are commissioner of insurance, commissioner of state, commissioner of labor, banking department, state librarian, state inspector of oils, state veterinarian, dairy and food commissioner and board of mediation and conciliation. This last board has a commissioner at a fixed salary, and one other member who is paid for the time he works. Justices of the supreme court, regents of the university, members of the state board of education, and members of the state board of agriculture are elected at the spring elections.

The supreme court judges are eight in number, one being chief justice, and are elected two every two years for a

#### DID YOU?

BY MIGNON M. QUAM. Did you ever eat a school lunch that

was cold And lay on your stomach like a load of lead? Did you ever try to study after that And find there's nothing working in

your head? Did you ever watch your father heat the food The pigs, and cows, and chickens

had to eat? Did you ever stop to ask the reason

why? Did he answer, "Boy, they gotto have some heat?"

Did you ever get to thinking kids might have A need of something warm, like pigs

and cows? You didn't? We you bet. Well, we youngsters have,

can tell you grownups all just how To keep us well and help to learn

and do Our work at school with vim and

strength and punch. Give us a stove, some dishes, groceries, too, And let us have at noon a hot

l let us hav school lunch.

term of eight years. The court holds four terms each year in Lansing, commencing the first Tuesday after the first Monday in January, April, June and October. Two justices will be chosen at the spring election of 1921. The regents of the university are

chosen, two every two years in odd years, and are eight in number. Their duty is to manage the state university at Ann Arbor.

Members of the board of agriculture, who control the destinies of the state agricultural college at East Lansing, are six in number, also elected at the spring elections in odd years. FOR SALE Lalley Light system com-plete in perfect condition, will be sold at a big reduction. A. L. ZECKEN-DORF, SUG Woodward Ave., Detroit, Mich. The superintendent of public instruction is a member of both the state board of agriculture and the board of Farms and Farm Lands For Sale virtue of his office.

10

The state board of education has supervision of the state normal college and normal schools. It consists of six members, elected for terms of six years.

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When poaching eggs whirl the water rapidly and while it is still in motion Inree Farms No. 1, 160 acres. 60 acres pasture, fertile soll, 2 barns. 8 room house, 3 miles to market. \$55,50 per A. No. 2 An estate of 147 acres. 90 acres timbor and pasture, good soil. 2 wells, 2 cisterns, \$55 per A. Yery stractive terms. No. 3 153 acres, extra good stock and grain farm, most favorably located \$130 per A. Further information write J. H. Russell, Realty Bureau, 412-414 Myors Bidg, Ashland, Ohio. drop in the egg. If a little salt has been added to the water the edge of the egg will keep round and smooth. -Mrs. J. J. O'C.

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degree you want.

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the recipe.

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ANG BSOLUTE dependability of cooking re-

A sults-economy of fuel and labor-beauty of design and gleaming white enamel-these are some of the reasons for the modern housewife's pleasure in the Joy Eclipse.

Oven heat is scientifically distributed, easily regulated and kept at just the right temperature.

Hot-all-over top means that every inch of the top is cooking space; a great saving in time and fuel. Smooth polished castings, white enamel splashers and oven doors make this stove easy to keep clean and new looking.

See your dealer. He will be glad to show you these and many other desirable features of Joy Eclipse Ranges.

## **ECLIPSE STOVE CO., Mansfield, Ohio**



Mr. A. V. Hinkley, Pres. Onaway Bank has charge of them or write me. THAD B. PRESTON,

Pres. State Savings Bank, Ionia, Mich.

Must Be Sold at once 122 acres best soll. Good buildings, 40 rods to school, 3 miles to Lansing, Mich. Buy of owner. S. HEMPY, 8. 7. Lansing, Mich.

Wonderful Opportunity TO PURCHASE

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**Rich Productive Farms** For A Home -- or As a Paying Investment IF INTERESTED WRITE FOR CATALOGUE ROGERS BROS. SEED CO.

McCLURE-STEVENSLAND CO. We have for sale 15,000 acres of fine unimproved lands, well located, close to schools, that we sell on easy terms. A fine farm of 523 acres, all well improved, good buildings, basement barns, silos, or ohards, all enced, well watered, good buildings, orchards. Three stock ranches, well fenced, graased and watered and watered. McGLURE- TEVENS LAND CO. Gladwin, Mich

Owner Obliged to go to another state, offers equipped 200 acre dairy farm divisible into two good homes, convenient to best schools and colleges at big sacrifice if taken now. Fine opening for some Holstein breeder. WILLIAM B. HATCH, Ypsilanti, Mich.

Please Mention The Michigan Farmer when writing to advertisers

OCT. 16, 1920.



490 - 22

# Our Boys' and Girls' Page Knights of the Farm The Best Society of All. Do You Belong?

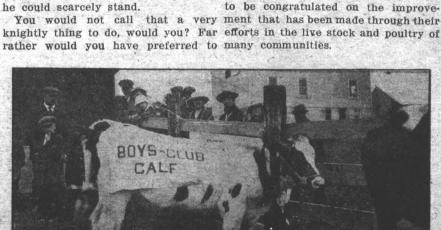
a good ring, has it not? But it is just the friend of former days. what one would expect of the boys and girls who gave their names in to be girl who, when one of her friends was members of the new organization, that being sneered at because she they should be really knights, battling wearing clothes that were faded and for the right and the best there is in patched, bravely stood up for her, and life. And I know they would live up with flaming cheeks said to the young to the name.

an organization of that kind or not, I'll fight for her if I have to." There with its charter and by-laws and all is the knighthood for you. You can't that sort of para-

phernalia, we can surely join that splendid body of young folks in spirit, adopting our own code and living up to it with all the strength of heart, mind and body that has been given us.

It means so much to have ideals that mal school and secured her place in lead us to act, think and work every the high school on her merits as a day toward the highest forms of citi- teacher. She found some of the city zenship. For that is what all farm boys and girls who were inclined to boys and girls ought to be aiming at. make fun of those who came from the As the days go by we are steadily country, but she never failed to come coming to the time when we will take to the defense of those misunderstood our places as members of this great young people, declaring that they were republic, citizens of the best nation in the equal of city boys and girls and the world, with all its interests devolv- that she would not stand by and hear ing upon us;' and we want to be ready them judged wrongfully or ridiculed. for the responsibilities when they Soon her pupils learned that she meant come: so the time to begin preparing just what she said and stopped their is today.

of a better word knighthood? I think knightly heart! How her young pupils now of a little thing that happened to from the farm must have loved her! a couple of boys. They were out in the woods one day. One of the lads knight to be ready to do anybody a climbed a tree that had come to grow good turn. Somebody you know may away down out of the perpendicular, be in trouble before night. Will it be slanting at the top toward the earth. you who will help that one in his time While he was there among the upper of need? Then, too, our knights of branches, the other boy quickly seized the farm cannot fail to be sincere and his axe and cut the free down. It was kind to father and mother, as well as a dangerous thing to do, for, of course, to all other fathers and mothers. "Lift when the tree fell, the boy came to a hand to help and keep a cheery the ground with it. He might have heart," will be a fine watchword for been seriously injured, although it so our boy and girl knights. happened that he was not. The boy who did the chopping thought it a great piece of sport and laughed till



Boys in Cloverland Are Enthusiastic Over Calf Club Work.

HAT is what I want to live long have been in the place of the boy who enough to see, a new society for was treated that way, for he just smilboys, with a branch or affiliated ed, though for a moment his face was organization for the girls, to include pale, as he said: "I didn't think you every young person of the farm whose would do a thing like that, Sam!" You heart is good and clean and devoted see, he had lost confidence in his chum to service for everybody. What would and it would not be strange if he never you think of the name for this band of recovered it afterward. For the boy young folks which I have given to this who does a mean trick runs the risk article? Knights of the Farm? It has of never getting back the confidence of

Would you not like to have been the was tormentors, "You shall not abuse Mary! But whether there ever should be She is the best girl I ever knew, and

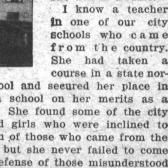
> help loving the one who was loyal and true enough to stand up for a friend when she was in trouble.

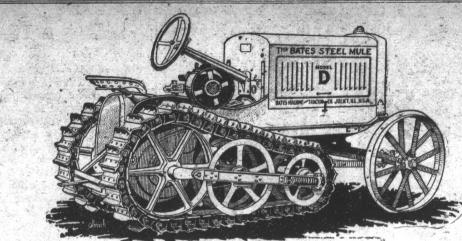
in one of our city schools who came from the country. She had taken a course in a state nor-

unmannerly sport. All honor to this What is this thing we call for lack young farmer girl teacher of the And then, it is the part of a farm

#### UNCLE ED.

The boys and girls of Michigan are to be congratulated on the improve-





The most efficient Tractor in America

## Bates Steel Mule Most Efficient on Belt Work

THE convenient arrangement of the Belt Pulley on the BATES STEEL MULE makes it easy for one man to quickly line up the Tractor with its work.

The Belt Pulley runs on nickel steel roller bearings and is operated by the same clutch that runs the Tractor, delivering full power to the driven machine.

A lever on Pulley Housing allows the Belt Pulley to be shifted in and out of gears.

The location of the Belt Pulley protects the motor bearings from any belt whipping shocks.

The BATES STEEL MULE generates sufficient power to operate an 18" Ensilage Cutter or a 28" Thresher with ease

The unusual adaptability of the BATES STEEL MULE makes it the logical Tractor for every job on the Farm where dependable motive power is essential. Have you our Catalog? Write today.

**F-1098** 

The Live Wire Bates Steel MulelDealer in your vicinity will give you any further information you may desire. If you cannot locate him, write direct to factory.

crowd of people at the show .-- G. H. C. MICHIGAN-JOLIET, OIL TRACTOR COMPANY INTERNATIONAL BELGIAN HORSE 224 S. Capital Avenue, Lansing, Michigan

277 Broadway

aid. Send for FREE Vest-Pocket Ve



Running an 18" **Ensilage** Cutter 23 - 491

## DOES NOT PACK THE SOIL **"LITTLE THINGS"** That Guarantee Little Trouble CREAM SEPARATOR and Little Expense

Besides the supreme United States qualities of close skimming, easy turning and easy cleaning-features of which the owner is conscious in every-day use here are a few of the construction details that stamp the United States Cream Separator as a fine, long-lived, finished mechanism.

One-piece sanitary frame--easy to clean; heavy enough to prevent excessive vibration.

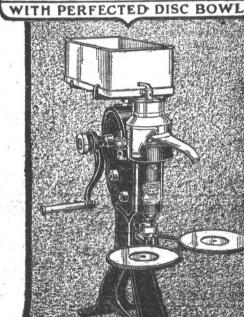
- All gears enclosed; no wear from grit and dust. Automatic oil-splash system--introduced by the United States; imitated by others.
- Low and most practical-shaped supply can.

These and many other superiorities guarantee freedom from disappointment and frequent repairs.

Write for catalogue and convince yourself that your next separator is to be a United States.

**Vermont Farm Machine Corporation** Bellows Falls, Vt. Chicago 53 W. Jackson Blvd. New York City Portland

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TATE



FARM HELP WANTED Herdsman 355, and helper 599 per month at once. Married. Good house to live in. H. DRIGGS, Palmyra, Mich. ck Yards, Chicago

Wanted Good general farmer for 160 acre modern equipped farm near Detroit. Also single farm hand with Fordson Tractor exper-ience. State age, experience and salary expected. Address Hox S 1016, Michigan Farmor, Detroit, Mich. Mention The Michigan Farmer When Writing Advertisers

#### OCT. 16, 1920.

large attendance was had.

DAIRY CATTLE CONGRESS.

THE Eleventh Annual Dairy Cattle Congress, which was recently held at Waterloo, Iowa, was bigger and better than it was last year, and despite the very unusually cool weather during several days of the show, a

The cattle came from as far east as Vermont and as far west as Montana. Several new exhibitors were present this year, as well as several of the best show herds. Every herd with the exception of the Ayrshires, had a much stronger show than they did last year. Due to the fact that several of their exhibitors could not get cars,

their show was about the same as last year. This also kept many other herds away from the show. The Brown Swiss

made an exceptionally good showing this year. Nine states sent herds.

Among the Jersey herds, the Long-

view Farm of Lee's Summit, Missouri, which have been such consistent win-

ners, was considerably larger than oth-

er exhibits, having in all, twenty-eight head; the next herd of note was those

of Secretary of Agriculture Meredith. Among the Guernsey herds, that of

U. A. Woodbury II, of Vermont, stood

out as attracting considerable attention. Many other famous herds com-

One of the greatest attractions was

the famous Mrs. O'Grady, owned by

Prof. Hugh G. Van Pelt, of which more

has been written and said than of any other cow in history. Stories of many kinds center about this cow, but for

all that, she is producing every day

and was always surrounded by a large

SHOW.

BELGIAN breeders and horse admirers generally were privileged to a

rare treat during the week of the In-

ternational Belgian Horse Show. This

show is unquestionably the greatest show of Belgian horses that has ever taken place outside the borders of Belgium, the original home of the breed. The show this year brought out a number of small breeders and beginners,

who had never tried showing at a show of such magnitude. Their success is proof enough that the owner of even the small stud often can produce ani-

The total number of breeders mak-

ing entries here this year amounted to

thirty-four, but owing to the inability to secure express cars, those living in

Indiana and Ohio, amounting to seven

entries, did not send their animals. It

is a fact that live stock men who desire to ship valuable animals a dis-

tance are greatly handicapped because

they cannot secure suitable cars for

shipment; officials are looking forward

to the time in the near future when such conditions will have been reme-

died. The animals from the east rep-

resented the top animals from seven studs, so considerable competition

would have been added had they ar-

rived. As it was, twenty-seven exhib-

Irvine, of Ankeny, Iowa; C G. Good,

of Ogden, Iowa, and Dr. W. A. Hamil-

ton, of Paulina, Iowa. While the number of horses were smaller this year

than last, yet the quantity of the animals was up to the usual standard.

Kays, of Ohio State University; Chas.

Brown, Iowa, and George Rupp, Saskatchewan, Canada. It is not likely that closer team work has been seen with judges in some little time than

The judging was done by Prof. D. J.

The larger studs were those of Chas.

itors won at the show.

mals of championship caliber.

peted.



## Avoid Dirt and Trouble

You needn't mess up your home with dirty water, coal dust, ashes and smoke, and you needn't lug in the coal and carry out ashes three or four times a day. Just install the



The Perfect

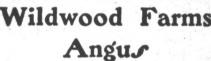
the stoves in two or three rooms; that it requires less attention and gives better results. Visit the dealer and see it. Read the guarantee. Or write to us for our booklet, "The Last Word in Econo-mical Heating," and see why the Cozy is called the "Perfect Furnace" "Perfect Furnace."

The Schill Bros. Company, Crestline, Ohio Morley Bros., Saginaw, Mich., Distributors

#### **BREEDERS' DIRECTORY**

492-24

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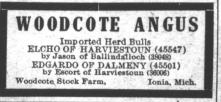


Effies Lass 238203 sold on May 6th for \$7100. She was sired by Black Monarch 3rd. We are offering for sale Editor of Wildwood 295059 a full brother in blood lines to Effies Lass also four more choice bulls which are old enough for service and sired also by the champion show and breeding bull Black Monarch 3rd.

Our herd is under State and Federal Supervision.

#### WILDWOOD FARMS ORION, MICHIGAN

W. E. SCRIPPS, Prop., Sidney Smith,Supt.



For Sale Registered Guernsey bulls. May Rose write. John Ebels R, 2 Holland, Michigan.

SPRING DELL FARM GUERNSEYS Choice of two bulls two and three years old; calves three to twelve months. Registered individuals and breeding. Prices right. BROTHERS, R. 2, Box 20, La Porte,

Guernsey Bull Eusto of Smallidge Farm, born the Ridge, who's dam Trizey of the Ridge holds first place in class EE. in Michigan. Granddam Abbie of Riverside is champion of Mich. Dam May Kings Ezalia of Eau Chaire an A. R. cow. E. J. SMALLIDGE, Eau Olaire, Mich.

Pure bred Guernsey bulls from one to four weeks old, Registered \$30, not registered \$25. Orders ship-ped in rotation received. No excuse for scrub bulls, WALTER PHIPPS FARM, 80 Alfred St. Detroit, Geo. E, Ourrie, Mgr.

For Sale: Guernsey bulls from 3 months to 6 months old. Their sire is DOTTIE'S PRINCE No. 44666 his dam has an official yearly record of 647 lbs. butter fat. L.J. BYERES, Coldwater, Mich. GUERNSEYS-Federal Inspected. Headed by only son of Carrie of Hillhurat, exchampion of A. A. class. 5 bulls under 10 mos., 1 a dandy whose dam in class Dhas given over 501bs.milk. No females to spare. G. W. & H. G. RAY, 4 mi. east of Albion. Mich.

GUERNSEY BULL CALVES whose 19,460.20 milk, 909.05 fat. The size's dam made made 15,109.10 milk, 718.80 fat. "N. HIOKS. Battle Creek, Mich.

Registered Guernseys a 6 months old built (100%) satisfaction for \$100. A nice heifer calif \$150. J. M. WILLIAMS, North Adams, Mich. GUERNSEYS -REGISTERED BULL CALVES Containing blood of world champions. HICKS' QUERNSEY FARM, Saginaw, W.S. Mich. FOR SALE E. A. BLACK, Begistered Guernsey helfers, Boute 3, Howard City, Mich.

Long Distance HOLSTEINS. PRINCE ON A Five dams av. 1186 lbs. butter and 24771 lbs. milk in l yr. Bulls all sold. State and Federal Supr. A. FLEMING, Lake, Mich.

ΝΟΤΙCΕ The Winwood Herd

on Nov. 1st will move their Herd of Pure Blood Holsteins to their new home, 12 miles south of Rochester, Mich. and for the next 30 days we will sell what bull calves we have cheap as we will here physical equipment will be unable to get our buildings complete before winter. So get busy if you want a son of Flint Maplecrest Boy at your own price.

JOHN H. WINN, (Inc.) Roscommon, Michigan

#### **OUR HERD SIRE**

Model King Segis Glista By a 30 lb. son of Lakeside King Segis Alban De Kol. His dam Glista Fenelle 32,37 lbs. Her dam Glista Er-nestine 5.56 lbs. His three nearest dams average over 38 lbs and his forty-six nearest tested relatives aver-age over 30 lbs. of butter in seven days. Write for pri-ces on his sons. **Grand River Stock Farms** 

## **Trade Stabilized**

(Continued from page 473). rectors meets and considers the scale for \$7.00 per ton, so the accumulated of prices for the prune crop then about profits are used to retire the outstandready to go to market. "We keep the ing capital stock (about \$1,000,000). cost of production in mind, but it has It is expected that this will all be re-very little to do with setting the price," tired in two or three years, except a says Manager Coykendall. "We get to few shares necessary to retain the gether all the information we can in corporation form of the company. regard to the size of the prune crop, These, of course, will be held by the the probable demand as determined by marketing company. advance orders and other things, condition of the foreign market, probable formed originally is that a company competition from other countries, gen- cannot give itself a warehouse receipt. eral business conditions, and then pro- The receipts were necessary to borceed to agree on a price that makes a row money, to pay advances to the living for the grower, and I will leave growers for their crops, so the double it to anybody if it is not business-like company plan was devised. This same and fair to all parties concerned."

It is well to note also, that while the iness concerns. prune growers have been investigated, their operations have always been ap- A separate story might well be writ-

#### Selling the Prunes.

longs to Mrs. R. G. Wallace, who holds Prunes are all graded according to a business position probably as import- one standard, which is now known the ant as that held by any woman in world over. In fact, the other hand-America. Last year she supervised the lers of prunes are even compelled to sale of over \$25,000,000 worth of guarantee their prunes to equal the prunes, and total sales will probably quality of those handled by the assoexceed \$30,000,000 this year. Half or ciation. In 1918 when a rain fell in more of the prunes are sold by the the picking season, the association time prices are fixed. They are sold worked out methods of saving damagat the "firm-at-opening price," which ed prunes, and saved several million means that the contracts are good at dollars for growers by the processes whatever price the association sets. developed.

as August," Coykendall told me. "They ing association in California. "More want us to set it six or eight months has been done by cooperative associaearlier so they can play with the crop tions to improve the quality of prodwe wouldn't know any more about the Heileman, secretary of the California. size of the crop than a farmer knows Farm Bureau Federation. about his corn crop when he plants it. We have always stood firm on that principle and will continue to do so."

Swatting the Speculators.

selling it later is only one way of spec- duced by the prosperous condition of ulating in farm products. Another is the industry. They are careful to point buying it when it should be moving in out that there is no over-production as various markets. They don't monkey yet, because the supply of prunes is with prunes any more, however, be- still consumed year after year, though cause the California Prune and Apri- constantly growing larger. The job cot Growers,' Inc., knows just how ahead of the association may be guessmany prunes every wholesale dealer ed from the fact that there are now in the United States can legitimately eighty-five thousand acres of prunes in handle.

amount, it is evident that he is specu- ricot acreage is increasing in the same lating. Bing! his supply is shut off, proportion. and as he can't get enough prunes anywhere else to speculate with, he is \$300,000 per year in advertising the compelled to be good. There are a prunes and apricots in order to help number of chronic speculators, how- sell the larger crops. "Our advertisever, to which the prune and apricot ing campaigns have been tremendous growers refuse to sell any product, successes," says Coykendall. "They and moreover, they refuse to sell any- have kept the demand of prunes conthing to any other company, which re- stantly on the increase." sells to these speculative companies.

kill speculation as far as prunes and when foreign exchange went to smash. apricots are concerned," said Mrs. Formerly half of the prunes produced Wallace. "We are against specula- were exported. The exchange situation in prunes and apricots because it tion cut off the foreign demand, so the increases prices to consumers and association proceeded to sell the whole thereby reduces consumption. We are California crop in America, and the all the time working to increase con- Oregon and Washington prunes were sumption, and the speculators are also sold in this country. Consumers

#### Financing the Warehouses.

The physical equipment of the prune The triumph of the California prune and apricot association-warehouses and and apricot growers represents the processing plants, is owned by a sub- highwater mark in the success of prosidiary company called the Growers' ducers' cooperation in America. It is Packing and Warehousing Association, well worth study by any other group Inc. The California Prune and Apricot of farmers who hope to embark in extion), pays the other company a cer- of their products. tain amount for doing the mechanical work necessary in preparing dried The greatest advantage of owning a fruit for market. This charge is \$7.00 truck on a general farm is saving time per ton, the standard charge for hand- according to ninety per cent of eight ling and picking prunes in all the pack- hundred and thirty-one central west-Cory J. Spencer, Owner Eaton Rapids. Mich. ing houses in California. There is a ern farmer truck owners.

considerable profit in doing the work

The reason why two companies were plan is often used by commercial bus-

#### Better Quality of Product.

proved by the government authorities. ten about the improvement in quality of product that has been brought about The duty of selling the prunes be- by the Prune Growers' Association.

"The speculators have always ob- The same story could be told about jected to us setting the price as late every important cooperative marketa bit, too. We would be speculators, uct than by every other agency comtoo, if we fixed the price early when bined, and then some," says W. H.

The Problem of "Over-production." The prune and apricot growers, like the citrus and raisin growers, have found that their chief problem is a Buying the crop from producers and constantly increasing production, inbearing in California, and sixty-five When he buys more than that thousand acres more planted. The ap-

The association is spending about

The strength of the association can "We are following up this plan to be judged from its experience in 1919, were simply induced to eat two prunes, where they had eaten one before.

Growers, Inc., (the marketing associa- tensive plans of cooperative marketing

8

1 44

1 to

Lee Union-A

of living.

They're not Union-Alls

Unless they The H. D. Lee Mercantile Co.

Kansas City, Mo. Kansas City, Kas. Minneapolis, Minn. St. Louis, Mo. Los Angeles, Cal.

Just Like Dad's !"

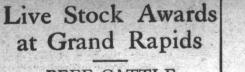
The most popular work and play garment in America-

The millions of Americans who are wearing LEE UNION-ALLS

insist on the trade-mark not merely because of the great comfort and convenience of these nationally famous garments but because they

reduce substantially the high cost





BEEF CATTLE Galloways.

Galloways. Heifer, Two Years Old—Jas. Frantz & Sons, Bluffton, Ohio, first; H. M. Vines, Howell, second and third. Heifer, One Year Old—Jas. Frantz & Sons, Bluffton, Ohio, first; H. M. Vines, Howell, second and third. Senior Heifer Calf—Jas. Frantz & Sons, Bluffton, Ohio, first; H. M. Vines, Howell, second. Junior Heifer Calf—James Frantz &

Howell, second. Junior Heifer Calf—James Frantz & Sons, Bluffton, Ohio, first and second; H. M. Vines, Howell, third. Exhibitors' Herd—James Frantz & Sons, Bluffton, Ohio, first and third; H. M. Vines, Howell, second. Breeders' Herd—James Frantz & Sons Bluffton, Ohio, first, H. M. Vines

Breeders' Herd—James Frantz & Sons, Bluffton, Ohio, first; H. M. Vines, Howell, second. Four Animals, Get of One Sire— James Frantz & Sons, Bluffton, Ohio, first and third; H. M. Vines, Howell, second

second.

Two Animals, Produce of One Cow —James Frantz & Sons, Bluffton, Ohio, first and third; H. M. Vines, Howell, second.

Galloway Champions. Senior Bull, Two Years or Over-James Frantz & Sons, first. Junior Bull, Under Two Years-Jas.

Frantz & Sons, first. Senior Cow, Over Two Years-Jas.

Frantz & Sons, first. Grand Bull—James Frantz & Sons,

first. Grand Cow or Heifer—James Frantz

& Sons, first. Red Polled. Bull, Three Years or Over—Stump & Etzler, Convoy, Ohio, first; Wm. W. Kennedy, Grass Lake, second. Bull, Two Years or Over—Stump & Etzler, Convoy, Ohio, first. Bull, One Year or Over—Stump & Etzler, first and second; Wm. W. Ken-nedy, Grass Lake, third.<sup>\*</sup> Senior Bull Calf—Stump & Etzler, first; Wm. W. Kennedy, third. Junior Bull Calf—Stump & Etzler, first; Wm. W. Kennedy, second and third. Cow, Three Years or Over.

third. Cow, Three Years or Over—Wm. W. Kennedy first and second; Stump & Etzler, third. Heifer, Two Years Old—Stump & Etzler, first; Wm. W. Kennedy, sec-ond and third. Heifer One Year Old Stump & Etz

Heifer, One Year Old-Stump & Etz-ler, first and third; Wm. W. Kennedy,

second and fourth. Senior Heifer Calf—Stump & Etzler, first; Wm. W. Kennedy, second. Junior Heifer Calf—Stump & Etzler, first and second; Wm. W. Kennedy,

third.

third. Exhibitors' Herd—Stump & Etzler, first; Wm. W. Kennedy, second. Breeders' Herd—Stump & Etzler, first; Wm. W. Kennedy, second. Four Animals, Get of One Sire— Stump & Etzler, first and second; Wm. W. Kennedy, third. Two Animals, Produce of One Cow— Stump & Etzler, first and third; Wm. W. Kenendy, second. Champions—Stump & Etzler, senior bull, junior bull, junior heifer, grand bull; W. W. Kennedy, senior cow over two years old, grand cow. Herefords.

Herefords.

Grand Champion Bull-Allen Broth-ers, Paw Paw, first. Grand Champion Cow-Allen Broth-

p

Grand Champion Cow—Allen Broth-ers, Paw Paw, first. Bull, Three Years or Over—Allen Brothers, Paw Paw, first. Bull, Two Years or Over—John Dav-idson, Owosso, first. Bull, One Year or Over—Allen Broth-ers, Paw Paw, first and second. Senior Bull Calf—John Davidson, Owosso, first. Junior Bull Calf—Allen Brothers, Paw Paw, first. Cow, Three Years or Over—Allen Brothers, Paw Paw, first; John David-son, Owosso, second. Heifers—Allen Brothers, Paw Paw,

Heifers Allen Brothers, Paw Paw, first and second for two-year-olds; first and second for one-year-olds; first senior heifer; first junior heifer; first ex-hibitors' herd, first breeders' herd; first four animals, get of one sire; first and second two animals, produce of one cow

Hereford Champions-Allen Broth ers; Paw Paw, senior bull, junior bull senior cow, junior heifer, grand bull, grand cow, first.

grand cow, first. Shorthorns. Bull, Two Years or Over-John Les-siters' Sons, Clarkston, Mich., first. Firsts, in all other divisions went to the Lessiters, including junior bull calf, cow three years or over, heifer two years or over, heifer one year old,



#### **Purebred Holstein Cows Return \$1.54 for One** dollar of Feed.

**Gollar of Feed.** Even though you may regard your farm as a diversion or your hobby, you would doubtless prefer to see it self-supporting, and perhaps take still greater pride in it for that very reason. Here are two or three facts! Holsteins are the largest, most vigorous most even-tempered, the easiest-cared-for breed, and the greatest yielders of milk in the world. Their milk is the most evenly balanced in fat, sugar and proteids, and for that reason easily diproteids, and for that reason easily di-gested. It is everywhere recognized by the medical profession as absolutely by the medical profession as absolutely the best for infant and invalid feeding as well as for general use. A herd of Holsteins will give you on the average \$1.54 for every dollar's worth of food they eat. Send for our free literature and look it over. Perhaps you will

THE HOLSTEIN-FRIESIAN ASSOCIATION 164 Hudson Street Brattleboro Vermont.

The Traverse Herd We have what you want in BULL CALVES, the large fine growthy type, guaranteed right in every way They are from high producing A. R. O. ancestor Dam's records up to 30 lbs. Write for pedigrees and quotations, stating about age desired. TRAVERSE CITY STATE HOSPITAL Traverse City, Mich.

#### Introduction Holstein-Friesian An Mr. Dairy Farmer, Mr. Holstein Breeder Meet KING FLINT **Bulls**

Let King Flint Help You Improve Your Herd Through

A son of this great young sire suited to head any herd in Michigan, grade or purebred, can be secured in Genesee County and we want them all to stay in Michigan. Write us about your herd, tell us what you need and what you feel you can afford to pay and let us help you find just what you want m Genesee County, the center of Michigan's long distance dairy cattle. Genrida Farm **Elmcrest Stock Farm** 

#### G. L. Spillane & Son Co. Clio, Mich. Watter T. Hill Davison, Mich.

Superior Holsteins Bulls all sold but are now booking orders for our expected fall crop of

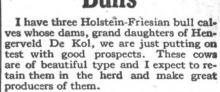
**Bull Calves** sired by my new herd bull, a grandson of

May Echo Sylvia My sire's two nearest dams average over 35 lbs butter and 800 pounds milk in seven days.

#### A. W. COPLAND

Birmingham, Mich Herd under state and federal supervision

33.6 ibs. butter <sup>608.1</sup> lbs. milk in 7 days aver. of \$250 Terms. King of Pontiacs. Maplecreat and Pieter-tic breeding. M. L. McLAULIN. Redford, Mich.



These youngsters are sired by a high-class bull and are remarkably fine individuals.

I will sell them for \$150 each if taken at once, but would prefer to farm them out letting a person take them who would give them first-class care, keep them un-til they were three years old and then return them. If the dams make as good as they ought I would very much prefer the bulls three years of age than \$150 now. The risk of death from natural causes of course would be mine.

D. D. Aitken, Flint, Mich.

## **"TOP NOTCH"** HOLSTEINS

Buy a "milk" Bull of Quality from the Breeders of the world's only cow to produce 800 lbs. milk in 7 days, having an 800 lb. daughter. Here's a "Top Notcher"

Segis Vale Colantha Clothilde,

No. 307704, Born Jan. 22, 1920.

His five nearest dams average 30.08 lbs. butter in 7 days. Color: more white than black. Price \$150.00 f. o. b. Howell.

**McPHERSON FARMS CO.** Howell, Mich. All Herds Under U. S. Supervisio

\$1200 Buys five good young reg. Holstein cows. Some fresh others freshen soon. Very prominen breeding. All guar. OK. B. B. Beavey, Akron, Mich





## Valuable Fodder Facts

494-26

Thirty-seven percent of the feeding value of your corn crop is tied up in your fodder, so experimental stations say. Just think what that means! When handled the old way, your stock gets only a very small part of that 37 %. tenths of it blows away, washes away, leaches out in the weather and is trampled under foot in feeding. About onethird of the entire corn crop is utterly wasted.

#### Get this free book

It offers valuable suggestions on fodder-saving. It tells you how the Appleton, the first successful husker and shredder, still leads in corn conservation. Modern farming methods offer no bigger oppor-tunity than in conserving fodder. Start right now. Greater convenience, more fertilizer, and more profits result from shred-ding or making stover silage of your fodder. Get the free book. Ask also for data on stover silage. Address Dept. 23 care of pearest branch. arest branch.

Appleton Manufacturing Co.

Batavia, Ill. a, Neb. Minneapolis, Minn. Columbus, Ohio Distributing Stocks: Sioux Falls, S. D., Aberdeen, S. D. Omaha, Neb.



## Dairymen of Michigan!

If you are interested in improving your herds **REMEMBER THE DATES** of the three great Holstein Sales OCTOBER 19TH TUESDAY JACKSON EAST LANSING ESDAY OCTOBER 20TH EAST LANSING URSDAY OCTOBER 21ST OWOSSO CHOICE MICHIGAN-BRED HOLSTEINS 225 WEDNESDAY THURSDAY

225 Guaranteed Free From Tuberculosis and Sold With 60-90 Day Retest Privilege Sales Managed By

THE MICHIGAN HOLSTEIN-FRIESIAN ASSOCIATION H. W. NORTON, Jr. Field Secretary, Old State Block, Lansing, Michigan



1

Plymouth, first. Bull, One Year Old—L. C. Kelly, Ply-mouth, first.

mouth, first. Senior Bull Calf—L. C. Kelly, first. Junior Bull Calf—B. D. Kelly, first; senior cow. L. C. Kelly, second. Cow, Three Years Old and Over— Arthur Ed B. D. Kelly, first; L. C. Kelly, second. Heifer, Two Years Old—L. C. Kelly, first; B. D. Kelly, second. Heifer, One Year Old—L. C. Kelly, Holland, fi first and fourth; B. D. Kelly, second Rapids, se and third. Senior Heifer Calf—L. C. Kelly Grand Baul, Ty

Senior Heifer Calf-L. C. Kelly, first; B. D. Kelly, second. Exhibitors' Herd-L. C. Kelly, first;

Exhibitors' Herd—L. C. Kelly, first; Senio B. D. Kelly, second. Breeders' Herd—L. C. Kelly, first; Junio B. D. Kelly, second. Four Animals, Get of One Sire, and Two Animals, Produce of One Sire, and Cow, Two Animals, Produce of One Cow— Ebels, f L. C. Kelly, first; B. D. Kelly, second. Champions—L. C. Kelly, first senior Cow, bull, senior cow, junior heifer, grand Holmes, bull, grand cow; B. D. Kelly, junior second. Heife bull.

#### Aberdeen Angus.

Woodcote Stock Farm, Ionia, won all prizes in this section.

#### DAIRY CATTLE

Bull, Three Years or Over—Dudley first and fourth; John Ebels, second and fourth. Senior Heifer Calf—R. A. Holmes, second first and fourth; John Ebels, second E. Waters, Grand Rapids, first; Corey and third. J. Spencer, Jackson, second; George Junior Heifer Calf—John Ebels, Stevens, Grand Rapids, third; Willard first; R. A. Holmes, second. & Booth, Grand Rapids, fourth. Bull, Two Years or Over—L. J. Wil-R. A. Holmes, second.

& Booth, Grand Rapids, fourth. Bull, Two Years or Over—L. J. Wil- R. son, Grand Rapids, first; C. J. Spen-

Son, Grand Rapids, Inst, C. J. Spencer, Second. Bull, One Year Old—Loeb Farms, Charlevoix, first; C. J. Spencer, second and third; Dudley E. Waters, fourth. Senior Bull Calf—Loeb Farms, first and second; Willard & Booth, third; Junior Bull Calf—Loeb Farms, first Junior Bull Calf—John C. Booth, of Grand Rapids, first; Loeb Farms, sec-ond; C. J. Spencer, third; D. E. Wa-ters, fourth. Cow, Five Years or Over—Dudley E. Waters, first and fourth: J. C. Booth Waters, first and fourth: J. C. Booth Waters, for Years or Over—Dudley E.

Waters, first and fourth; J. C. Booth, second and third.

Cow, Three Years Old and Under Five-D. E. Waters, first and third; J.

Five—D. E. Waters, first and third; J. Shu C. Booth, second. Heifer, Two Years Old—D. E. Wa-vision ters, first; L. J. Wilson, second; J. C. Booth, third; C. J. Spencer, fourth. Senior Yearling Heifer—J. C. Booth, first; C. J. Spencer, second; D. E. Wa-ters, third; L. C. Wilson, fourth. Exhibitors' Herd—D. E. Waters, first; J. C. Booth, second; L. C. Wil-son, third; C. J. Spencer, fourth. Breeders' Herd—J. C. Booth, first; D. E. Waters, second; C. J. Spencer, Ste

Breeders' Herd—J. C. Booth, first;
D. E. Waters, second; C. J. Spencer, third; L. C. Wilson, fourth.
Four Animals, Get of One Sire—J.
C. Booth, first; D. E. Waters, second;
C. J. Spencer, third.
Two Animals, Produce of One Cow—
J. C. Booth, first; C. J. Spencer, second;
D. E. Waters, third; J. L. Wilson, fourth.

fourth. Junior Yearling Heifer—D. E. Wa-ters, first; J. C. Booth, second; Loeb Farms, third; C. J. Spencer, fourth. Senior Heifer Calf—Loeb Farms, first; J. C. Booth, second; C. J. Spen-cer, third and fourth.

Senior Heifer Calf—Loeb Farms, first; J. C. Booth, second; C. J. Spen-Junior Heifer Calf—J. C. Booth, first; Loeb Farms, second; D. E. Wa-ters, third and fourth. Champions—Senior bull, D. E. Wa-ters; junior bull, J. C. Booth; senior cow, D. E. Waters; junior heifer, J. C. Booth; grand bull, D. E. Waters; grand cow, D. E. Waters, Jerseys.

Jerseys. Bull, Three Years Old-Arthur Edison, Grand Rapids, first. Bull, Two Years Old—Eardley Broth-

Sow, Two Years or Over—Stokes & Hile, first and second; W. B. Ramsdell, third and fourth. Sow, 18 to 24 Months—John Hawk-ins, first; Arthur Edison, second. Senior Bull Calf—Eardley Brothers, first; Arthur Edison, second. Junior, Bull Calf—Arthur Edison, first; Nicholas Potter, Grand Rapids, second; Arthur Edison, third; Eardley Brothers, fourth. Cow. Five Years Old—Arthur Edi-Cow. Five Years Old—Arthur Edi-Sow, 18 to 24 Months—John Hawk-ins, first; Stokes and Hile, second. Sow, 12 to 18 Months—Stokes & Hile, first; Allen Brothers, second; W. Sow, 12 to 18 Months—Stokes & Hile, first; Allen Brothers, second; W. Sow, 12 to 18 Months—Stokes & Hile, first; Allen Brothers, second, Sow, Six to Twelye Months—John Sow, Six Months—W, B,

Brothers, fourth. Cow, Five Years Old—Arthur Edi-

son, first and third, Bardley Hawkins, third. second and fourth. Heifer, Two Years Old—Eardley Breeders' Herd—Allen Brothers, Brothers, first; Arthur Edison, second first; Stokes & Hile, second; John Hawkins, third; W. B. Ramsdell, and third. Senior Yearling Heifer-Eardley Second;

Senior Yearling Heifer—Eardley Brothers, first; Arthur Edison, second; S. J. Cowan, third.

Junior Heifer Calf—Eardley Broth-ers first and second; Arthur Edison, third; S. J. Cowan, fourth. Exhibitors' Herd—Arthur Edison, first; Eardley Brothers, second.

Polled Durhams. Bull, Three Years and Over—L. C. Bull, Two Years Old—D. B. Kelly, Plymouth, first. Bull, One Year Old, T. C. Bull, One Year Old, T.

second. Two Animals, Produce of One Cow —Eardley Brothers, first and second; Arthur Edison, third. Champions—Senior bull, Arthur Ed-ison; junior bull, Eardley Brothers; senior cow, Eardley Brothers; junior cow, Eardley Brothers; grand bull, Arthur Edison; grand cow, Eardley Brothers. Guernseys.

Guernseys. Bull, Three Years Old—John Ebels, Holland, first; Robt. A. Holmes, Grand Rapids, second. Bull, Two Years Old—Mike Baker, Grand Rapids, first; R. A. Holmes, sec-ond; John Ebels, third. Senior Bull Calf—John Ebels, first and second; R. A. Holmes, third. Junior Bull Calf—R. A. Holmes, first; John Ebels, second. Cow. Five Years or Over—John

Cow, Five Years or Over-John Ebels, first; R. A. Holmes, second and

Cow, Three Years Old-Robert A. Holmes, first and third; John Ebels,

second.
Heifer, Two Years Old—John Ebels,
first; R. A. Holmes, second and third.
Senior Yearling Heifer—Robert A.
Holmes, first.
Junior Yearling Heifer—John Ebels,
first and third; R. A. Holmes, second

Breeders' Herd-R. A. Holmes, first; John Ebels, second.

Brown Swiss.

Brown Swiss. Hull Brothers, of Painesville, Ohio, won everything in this section. Ayreshires. Shuttleworth Brothers, of Ypsilanti, carried off all the awards in this division. Milking Shorthorns.

Cow, Three Years or Over-N. C.

Peterson, Gowen, first and second, Heifer, One Year and Under Two-N. C. Peterson, first. Fat Cattle-Purebred or Grade. Steer, Two Years and Under Three -John Lessiters' Sons, Clarkston, first

Steer Calf, Six Months and Under ne Year-James Frantz & Sons, of One Bluffton, Ohio, first.

Ayreshire Special. Shuttleworth Brothers won first.

SWINE

#### Poland Chinas.

Boar, Two Years or Over-Allen Brothers, Paw Paw, first; W. B. Rams-dell, Hanover, second; Stokes & Hile,

Boar, Under Six Months—W. B. Ramsdell, first and third; John Haw-kins, second; Fred Schaefer, Com-stock Park, fourth. Sow, Two Years or Over—Stokes &

Cow, Five Years Old—Arthur Edi-son, first; Eardley Brothers, second Ramsdell, first and third; John Hawk-and third. Cow, Three Years Old—Arthur Edi-son, first and third; Eardley Brothers, first; W. B. Ramsdell, second; John second and fourth. Heifer Two Years Old—Eardley Brothers, Hard Allon Brothers

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Four Animals, Either Sex, Get of Cne Boar—W. B. Ramsdell, first; John Hawkins, second; Stokes & Hile, third; Allen Brothers, fourth. Champion—Senior boar, Allen Broth-ers; junior boar, W. B. Ramsdell; sen-ior sow, Stokes & Hile; junior sow,

John Hawkins; grand boar, Allen Brothers; grand sow, Stokes & Hile. Duroc Jerseys.

Boar, Two Years or Over—C. E. Dav-& Son, Ashley, first; Carey U. Ed-unds, second; N. Barnhardt, St.

is & Son, Ashley, first; Carey U. Edmunds, second; N. Barnhardt, St. Johns, third.
Boar, 18 to 24 Months—C. U. Edmunds, first; Frey Brothers, Caledonia, second; C. E. Davis, third.
Boar, 12 to 18 Months—N. Barnhardt, first; C. E. Davis, second; Clyde R. Austin, Bloomingdale, third.
Boar, Six to Twelve Months—N. Barnhardt, first; C. U. Edmunds, second; C. E. Davis, third.
Boar, Six to Twelve Months—N. Barnhardt, first; C. U. Edmunds, second; C. E. Davis, third.
Sow, 18 to 24 Months—C. U. Edmunds, first and third; N. Barnhardt, second; C. E. Davis, fourth.
Sow, 12 to 18 Months—N. Barnhardt, first; C. U. Edmunds, second; C. E. Davis, fourth.
Sow, 12 to 18 Months—C. I. Schafter, Sow, Under Six Months—C. I. Schafter, Sow, Under Six Months—C. I. Schaftey, St. Johns, first and second; C. L. Edmunds, third; C. R. Austin, fourth.
Exhibitors' Herd—C. E. Davis, first; N. Barnhardt, second; C. U. Edmunds, third; C. U. Edmunds, third.
Champions—Senior boar. eighteen third.

third. Champions—Senior boar, eighteen months or over, C. U. Edmunds, junior boar, under eighteen months, junior sow under eighteen months, grand boar, N. Barnhardt; senior sow, eight-een months or over, grand sow, C. E. Davis Davis.

Davis. Chester Whites. A. J. Adams, Litchfield, won every-thing in this class, excepting the sec-ond premium for a boar under six months, second and fourth premiums for a sow under six months, second premium for breeders' herd, second pre-mium for four animals the get of one boar, second premium for four animals the get of one sow, which awards went to the Junior Boys' Pig Club, Grand Rapids. Rapids.

Tamworths. W. S. Adams won all awards in this section.

Victoria and Cheshires. N. Barnhardt won all awards in this class.

#### SHEEP

American Merino.

American Merino. Ram, Two Years or Over—Calhoun Brothers, Bronson, first and third; E. E. Nye, Jonesville, second. Ram, One Year Old—Calhoun Broth-ers, first and third; E. E. Nye, second. Ram, Lamb and Ewe, Two Years or Over—Calhoun Brothers, first and third; E. E. Nye, second. Ewe, One Year Old—Calhoun Broth-ers, first; E. E. Nye, second. Ewe Lamb—Calhoun Brothers, first and third; E. E. Nye, second. Flock of Four, and Pen of Four Lambs—Calhoun Brothers, first and third; E. E. Nye, second. Calhoun Brothers, first and third; E. E. Nye, second. Champions—Calhoun Brothers, first ram two years or over, ram under two

ram two years or over, ram under two years, ewe two years or over, ewe un-der two years, grand ram, grand ewe, pen of three yearling ewes, pen of three yearling rams.

Delaines.

Ram, two years or over; ram, one year old, ram lamb; ewe, two years or over; ewe, one year old; ewe lamb; flock of four; pen of four lambs, Cal-houn Brothers, first; E. E. Nye, second. Champions—Calhoun Brothers, ram

over two years, ram under two years, ewe two years or over, ewe under two years, grand ram, grand ewe, pen of three yearling ewes, pen of three year-

three yearling ewes, per of three year-ling rams. Rambouillets. Ram, Two Years or Over—Calhoun Brothers, first; P. C. Freeman & Sons, Lowell, second. Ram, One Year Old—Calhoun Broth-ers, first; P. C. Freeman & Sons, sec-ond and third. Ram Lamb—Calhoun Brothers, first and second; P. C. Freeman & Sons, third and fourth. Ewe, Two Years or Over, Year-old

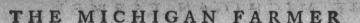
third and fourth. Ewe, Two Years or Over, Year-old Ewe, Lamb Ewe, Flock of Four, Pen of Four Lambs—Calhoun Brothers, first; Freemans, second. Champions—Calhoun Brothers, ram two years or over, ram under two years or over, ewe under two years, grand ram, grand ewe, pen of three yearling ewes, pen of three yearling rams.

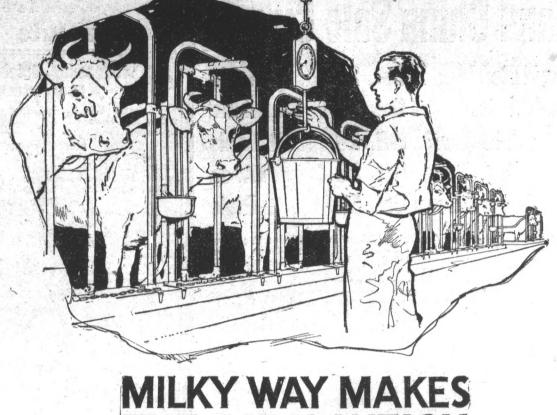
Ram, Two Years or Ovér-Kope Kon Farm, Coldwater, first; Herbert E. Powell, Ionia, second and fourth; R. J. & C. A. Williams, Middleville, third. Ram, One Year Old-Kope Kon Farm, first; H. E. Powell, second and

third. Ram Lamb-Kope Kon Farm, first and second; B. D. Kelly, Plymouth, third; H. E. Powell, fourth.

third; H. E. Powell, fourth.
Ewe, Two Years or Over—Kope Kon Farm, first; H. E. Powell, second and third; B. D. Kelly, fourth.
Ewe Lamb—H. E. Powell, first;
Kope Kon Farm, second and third.
Flock of Four—Kope Kon Farm, (Continued on page 497).

Box D;





# THE MILK WEIGH Not heavier milk but more from every cow

The MILKY WAY DAIRY RATION



Manufacturers of MILKY WAY CALF MBAL C-EM-GROW HOG FEED GLOSKOAT HORSE FEEDS EGG-A-DAY DRY MASH

#### URE grains and choice concentrates. Just the balance of proteins, carbohydrates, and fats to produce the heaviest flow of milk. Vitamines and minerals that recent tests have proved necessary.

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A rightly planned, honestly manufactured, and carefully tested dairy feed that takes the guesswork out of your feeding and makes more milk from every cow.

Tell your dealer you want Milky Way. If he doesn't have it, send us his name and we'll see that you get it. Write for "The Milky Way." It tells you how to get more milk from every cow.



Reg. Red Polled Bull calves for sale, from 3 mos. to 1 year old, sired by Famous Charmer grand son of Charmer 1919 International Grand Cham-pion. WESTBROOK BROS, Ionia, Mich. **Richland Shorthorns** The Wildwood Farm Jersey Cattle, Majesty strain, Herd on State accred-ited list, R. of M. testing constantly done. Bulls for sale. ALVIN BALDEN, Phone 143-5, Capac. Mich. Imp. Lorne, Imp. Newton champion and Sterling Supreme in Service. We offer Sterling Supreme in Service. We offer for quick sale: Five Scotch Bulls, best of breeding. Three whites at \$1000 each One roan at \$500, one red at \$400. No females for sale. Public sale Chicago Oct. 28th C. H. PRESCOTT & SONS, Tawas, City, Mich. BUTTER BRED JERSEY BULLS FOR SALE Silver Crock. SPRING STOCK FARM. Allegan County, Michigan. HOGS Berkshires size with quality is our special-ty. Write your wants to M. G. MOSHER & SONS, Osseo, Mich. JERSEY BULLS Ready for service. Radeigh, Oxford Lad, Majesty breeding. Meadowland Farm, Water-man & Waterman, Packard Rd., Ann Arbor. Mich. Registered Berkshires, Gilts, and Sows bred for April May and June farrow. A yearling Boar and a few younger.Spring pigs. Chase Stock Farm, Marlette, Mich. Your Choice of 10 out of 30 head of Reg. ta-heifers. \$2500 takes the ten and our herd bull. Also have 6 mo. bull out of one of these cows having re-cord of 13580 lbs. milk. E. A. LIVINGSTON, R. 10, St. Johns, Mich. Jerseys For Sale, Register of Merit Smith and Parker, Howell, Michigan. Fine Registered Berkshire pigs for sale, prolific, large litters. C. H. WHITNEY, Merrill, Mich. for sale, For Sale Jersey bull calves of Majesty breeding from ment "Ascredited List," Write for price and pedigree to C. A. TAGGETT; E. 2, Fairgrove, Mich. Splendid Berkshires Late sum fall litters. Both sexes. Write for prices and pedi-grees. BURR B. LINCOLN, Harbor Beach, Mich. Milking SHORTHORNS. Clay bred bull calves Herds under Fedoral Supervision. Davidson & Hall, Benand & Beland, Tecumsch, Mich. Shorthorns Good Scotch bred bulls, cows and heifers priced right, W. B. MoQUILLAN, B. 7, Howell, Mich. Lillie Farmstead Jerseys 2 R. of M. bull calves, C. C. LILLIE, Coopersville, Mich. **Brookwater Duroc Jerseys** M EADOW Hills Shorthorns, Herd headed by Sil-due University's great size. For sale females of all ages, a few young bulls. Geo. D. Doster, Doster, Mich. Jersey Bulls from R. of M. dams \$75 to NOTTEN FARM, Grass Lake, Mich. **BOARS**—Keady for Service Shorthorns Seotch and Seotch Topped builts and heifers priced right. Sultan Champion heads herd, one scotch two yr. old herd bull by Red Cumberland priced right. H. J. FLOWER & SON, Milo, Mich. Milking Shorthorns. of best Bates breeding, bulls 5 to 3 mo, old for sale. E. H. KURTZ, Mason, Mich. Big type, large bone and rugged with plenty of qual-ity. This is your chance to buy high class individ-uals at reasonable prices. Shorthorns of Merit Both males for sale. ARTHUR DODDS. Lapeer, Michigan **Open Gilts** of choice breeding and right type. Panama Special, The Principal 4th. Orion Cherry King, and Great Orion families. Now is the time to buy before the demand takes all of the good ones. BIDWELL **SHORTHORNS** SHORTHORNS-Imp. Mysic Prince in service bred by J. Durno, sire bred by Wm. Duthie. Stock for sale. J. A. BARNUM, Union City. Mich. You Can Buy a bull that will put weights on your dairy calves the difference will soon pay for the bull. Now selling good Scotch and Scotch-topped yearlings, reasonably priced. A roan, senior yearling, a Missie of Villager breeding, a herd bull prospect, Federal Test. Write us for Prices and Pedigrees Mail orders a Specialty. Satisfaction guaranteed. For Sale 19 Shorthorn registered good breeding will self cheap to close out. Apply The JENNINGS FARMS, Bailey, Mich. **BROOKWATER FARM** BIDWELL STOCK FARM, Milking Shorthorn 3 mos. heifer calf \$125 bred heifers Mand serviceable bulls at farmers' prices. Central Mich. Shorthorn Asso. Oscar Skinner Sec. Gowen, Mich. ANN ARBOR, MICHIGAN · Tecumseh, Michigan H. W. Mumford, Owner J. B. Andrews, Mgr. Red Polled cattle for sale bulls from 4 to 18 mos.also cows with calves by side and heifer's. G. A. CALHOON, Bronson, Mich. We Now Have **DUROC JERSEY SWINE** 

a number of choicely bred scotch females of any age for sale also three buils from 5 to 18 months old Visit our herd before buying. Sold 5 calves for 55400. CARR BROS., **4 CO.**, Bad Age, Mich. Reg. Red Polled cattle choice young bulls from 6 to 18. FRANK KEBLER, R. 1, Grand Ledge, Mich.

for sale 2 yr. old herd boars, yearling boars and boar pigs, also bred sows and gilts. Write for pedigrees and prices. Come and see them. THOS. UNDERHILL & SON, Salem, Mich.

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#### AWARDS AT GRAND RAPIDS.

(Continued from page 495).

(Continued from page 495). first; H. E. Powell, second; C. A. Wil-liams, third; B D. Kelly, fourth. Pen of Four Lambs—C. A. Wil-liams, first; H. E. Powell, second; B. D. Kelly, third. Champions—Kope Kon Farm, first ram two years or over, ram under two years, ewe two years or over, ewe un-der two years, grand ram, grand ewe, pen of three yearling ewes pen of three pen of three yearling ewes pen of three

yearling rams. Hampshires.

Kope Kon Farm won in all divisions of this class. Lincolns.

Ram, Two Years or Over—A. H. Mc-Lean, Kerwood, Ont., first and second; C. D. McLean, Kerwood, Ont., third and fourth.

and fourth. Ram One Year Old, Ram Lamb, Ewe Two Years or Over, Ewe One Year Old, Ewe Lamb, Flock of Four, Pen of Four—A. H. McLean, first and second; C. D. McLean, third and fourth. Champiens—A. H. McLean, first ram two years or over, ram under two years, ewe two years or over, ewe un-der two years, grand ram, grand ewe, pen of three, yearling ewes, pen of three yearling rams. Oxfords.

Oxfords.

Ram, Two Years or Over—Adam A. Armstrong, Fergus, Ont., first; W. E. Gardiner, Morley, second. Ram, One Year Old—Adam A. Arm-strong, first and second. Ram Lamb—A. A. Armstrong, first and second; W. E. Gardiner, third and fourth.

fourth. Ewe Two Years or Over, Ewe One Year Old, Ewe Lamb, Flock of Four, Pen of Four Lambs—A. A. Armstrong, first and second; W. E. Gardiner, third

and fourth. Champions—A. A. Armstrong, first ram two years or over, ram under two years, grand ram, grand ewe, pen of three yearling ewes, pen of three yearling rams,

Southdowns.

L. C. Kelly, Plymouth, won every-thing in this class. Cotswolds.

Shuttleworth Bros., Ypsilanti, won everything in this division.

Leicesters.

Ram, Two Years or Over—William McLean & Sons, first and fourth; C. D. McLean, second; Shuttleworth Brothers, third. Ram, One Year Old—William Mc-Lean & Sons, first and second; C. D. McLean, third; Shuttleworth Brothers, fourth.

fourth.

Ram, One Year Old—William Mc-Lean & Sons, first and second; C. D. McLean, third and fourth. Ewe, Two Years or Over—William McLean & Sons, first and second; Shuttleworth Brothers, third; C. D. McLean fourth.

McLean, fourth.

Ewe, One Year Old-William Mc-Lean & Sons, first and second; C. D. McLean, third; Shuttleworth Brothers, fourth.

fourth. Ewe Lamb—Wm. McLean & Sons, first and second; C. D. McLean, third; Shuttleworth Brothers, fourth. Flock of Four—William McLean & Sons, first; C. D. McLean, second; Shuttleworth Brothers, third. Pen of Four Lambs—William Mc-Lean & Sons, first; Shuttleworth Brothers, second; C. D. McLean, third. Champions—Wm. McLean & Sons, first, ram two years or over, ram unfirst, ram two years or over, ram un-der two years, ewe two years or over, ewe under two years, grand ram, grand ewe, pen of three yearling ewes, pen of three yearling rams.

Horned Dorsets.

B. D. Kelly, Plymouth, won in all classes. Cheviots.

divisions.

Two Middle Wooled Wethers, One Year or Over-L. C. Kelly, first; B. D. Kelly, second.

Tunis. F. E. Simpson, Ypsilanti, won everything in this class.

The honey market now seems to be the noney market now seems to be strengthening, and a great deal of Michigan honey is going to be sold lo-cally this year. Mr. Kindig, of the M. A. C., advises that the early packing for colonies to be wintered outdoors be not neglected, and that those persons expecting to buy queens and package bees for early delivery next spring place their orders now in order to as-sure prompt shipments when they are needed.

10

#### THE MICHIGAN FARMER

# The Cheapest Feed You Can Buy

29 - 497

Which is the feed for you to use? The feed for which you pay the least money?

Or the feed which produces biggest profits?" Figure it out for yourself. You may save three or four cents on a cow's feed with a low price ration.

Or you may get one, two, or three quarts more milk with Larro.

Which pays best?

Write us for names of successful dairymen in your neighborhood who use Larro because it's the cheapest feed they can buy-the feed for biggest profits.

The Larrowe Milling Company 501 Larrowe Bldg., Detroit, Mich.

MANY IMITATIONS PROVE ITS SUPERIORITY





# or Your Money Back"



W. J. HAGELSHAW, A

Leonards B. T. P. C. See exhibit at get your name on mailing list for 28. Double immune. E.R Leonard, St

"You Get More Milk

A The Daland Chinele Recentling immuned by
Large Type Poland China's. Everytling immuned by double treatment. Meet me at Detroit, or Jack son Fairs. A. A. Feldkamp, R. 2, Manchester, Mich.
BARGAINS on Big type spring and summer Poland China Pigs also yearling Shorthorn bulls, bull and heifer calves. Robert Neve, Pierson, Mich
Big Type Poland China blood \$4
choice. Frank Oliver, B. 2, Saline, Mich
HAMPSHIRES
<b>1914  1920</b> Choice Spring boars, popular breeding. Booking orders for fall pigs. All stock Cholera Immuned and guaranteed Breeeders. Satisfaction guaran teed.
STEUBEN'S HAMPSHIRE FARM R. 3, Angola, Ind
Edgewood Hampshires All bred gilts sold. New booking orders for gilts bred for fall farrow, and pigs for pig club work only. Depew Head, Edgewood Farm, • Marion, Ohio
HAMPSHIRES spring boars and fall pigs at a bargain book your order now for bred gifts JOHN W. SNYDEB, R. 4, St. Johns, Mich
SHEEP.
Delaine Rams B. & O. type, having size, quality, best of breeding, priced to sell, write. S. H. SANDERS, R. 2, Ashtabula, O
WHITTUM FARM SHROPSHIRES A fine lot of imported and house bred yearling even and rams for sale. A fine chance to start a new flocd or improve the old one call at the farm or write for inst what you want
C. H. WHITTUM, Eaton Rapids, Mich
Hillcrest Shropshires A nice lot of Ewes and Rams of all ages our flock i headed by McKerrow 3164 a son of Senator Bibby write or call on B. 3. & C. A. WILLIAMS, Middleville, Mich
FOR SALE 35 Registered Shropshir yearling rams and ram lambs Also some choice Duroc Jersey boars and gilts.
Shropshires Am offering one choice two year C. J. THOMPSON, Rockford, Mich
SUDODCUIDES Vearling and
sired by Imp. Berry No. 163 for sale. Also a few ewes
sired by Imp. Berry No. 165 for sale. Also a few ewes ARTHUR DODDS, Lapeer, Michigan Additional Stock Ada on Page 499

## HOGS The World's Champion

big type O.I.C's. Stock of all ages for sale. Herd headed by Calloway Edd, the World's Champion O. L. C. boar assisted by C. C. Schoolmaster. Grand Champion boar of Michigan, New York and Ten-nessee state fairs. Also, C. C. Giant Buster, unde-feated Senior boar pig wherever shown and Grand Champion of Oklahoma state fair. Get our eat-alogue of Crandell's prize hogs, Cass City, Mich,

O. I. C's Eight young boars and spring pigs OLOVER LEAF STUCK FARM, Monroe, Mich.

Central Mich. O. I. C. Swine Breeders Ass'n. Hogs of all ages of popular blood lines. Every sale guaranteed by association.

DR. H. W. NOBLES,

Sales Mgr. Coral, Mich. L. C. Kelly, Plymouth, won in all ivisions. Fat Sheep. Fat Sheep. Fat Sheep. Two Long Wooled Wethers, One Year or Over—A. H. McLean, Kerwood, Ont., first. O. I. C. Gilts bred for Sept. farrow and spring pigs. F. O. BURGESS, R. 3, Mason, Mich. O.I. C's. One last fall hoar wgt 425, two last fall O. gilts, bred lots of spring pigs and this fall pigs either sex, good growthy stock 5 mile west of Depot. Oits's. Phone 124. Otto B. Schulze, Nashville, Mich,

For Sale. O. I. C. Tpigs wt. 35 to 40 lb. both sexes. 520. 1008 pure. Also reg. yr. Sow. Osc., Price 530. SLAYEAUGH & BROWN. R. 2. Fittsford, Mich. **Poland China Special** 

Boar pigs sired by Monster Big Bob and from our best sows, priced right for immediate shipment. Big-boned, strong-backed, smooth fellows from popular blood lines. Write for information or visit the farm. BOONE-HILL CO., Blanchard, Mich. Big Type Poland Chinas special bargains on sows for October farrow, and boars all ages some ready for service. G. A. BAUMGARDNER, R. 2. Middleville, Mich.



#### GRAIN QUOTATIONS October 13, 1920.

Wheat.

Detroit.—Cash No. 2 red \$2.20; De-cember \$2.09; March \$2.06; No. 2 white and No. 2 mixed \$2.18. Chicago.—No. 3 red \$2.16; No. 1 hard \$2.14@2.15½; December \$2.06; March \$2.02

\$2.02. Corn.

Detroit.—Cash No. 2 mixed 97c; No. 2 yellow \$1.02. Chicago.—No. 1 mixed 91¼@92c; No. 2 yellow 92½@93¼c.

Oats. Detroit.—Cash No. 2 white 61c; No. 3 white 59½c; No. 4 white 56½c. Chicago.—No. 2 white 55¼ @56½c; No. 3 white 54@554c.

Beans. Detroit .--- Immediate and prompt are higher at \$5 per cwt. Chicago.—Quiet. Hand-picked beans choice to fancy at \$5.90@6.25. New York.—Dull. Choice pea \$5.75

@6; do medium \$7.

#### Rye. Detroit .-- Cash No. 2 rye \$1.67.

Seeds.

Detroit.—Prime red clover spot and October \$13.75; December \$14.25; al-sike \$17; timothy \$3.25. Toledo.—Prime cash \$13.50; December \$14.20; alsike \$16.75; timothy at \$3.15.

WHEAT

The fact that the corn crop was to The fact that the corn crop was to be the largest on record was recogniz-ed some time ago, so that the showing of the government October returns was not surprising. The reduction in wheat, however, was much more than the trade believed, the spring wheat yield being cut 19,000,000 bushels during the month to 210,000 000 bushels or only month to 219,000,000 bushels or only 10,000,000 bushels more than last year. The aggregate of the spring and win-ter kinds is 751,000,000 bushels which, with a carry-over of 150,000,000 makes a total supply of 901,000,000 bushels available for export and domestic consumption. After allowing for the same consumption, feed, seed, etc., as in 1919 there is about 250,000,000 bushels available for export, of which there has been 100,000,000 bushels actually shipped so far, and an equal quantity sold observed and will be shipped by sold abroad and will be shipped be-tween now and February 1. On the statistical showing there is only around 50,000,000 bushels more than can be spared if we are to carry over a nor-mal amount into the 1921 crop. The statistical situation favors higher prices for wheat later on, and if financial conditions in this country and abroad will permit prices will go higher. In-dia has received some rain, but needs more. Small exports are noted from that country and Russia. Argentine has received ample moisture and crop reports from that country are much more favorable.

#### CORN

A corn crop of 3,216,000,000 bushels, the largest on record, was suggested by the government October 1 crop reby the government October 1 crop re-port, showing 85,000,000 bushels in ex-cess of the September returns and nearly 300,000,000 bushels in excess of last year's harvest. As compared with the five-year average there is an increase of 456,000,000 bushels. Prac-tically all of the leading states have bushels, or 64,000,000 bushels in ex-cess of September and compared with 1,464,000,000 bushels harvested last year. In 1912 the total for the country was 3,125,000,000 bushels, of which the seven states had 1.833,000,000 bushels so that, while the total for the country in 1920 is 91,000,000 bushels more than in 1912 the so-called surplus states have 126,000,000 bushels less than in that year. Prices continue to decline.

#### OATS

The oats crop is estimated at 1.444. 000,000 bushels, or 2,000,000 bushels more than a month ago, and compares with 1,248,000,000 bushels harvested last year. Of barley the crop is 191,-

Seed prices declined still further the past week, reaching the lowest point of the season. Prices have reached a level at which much light yielding acreage will be abandoned because it will not pay for hauling. Receipts are falling off.

#### FEEDS

**FEEDS** Views of extremely bearish operat-ors who several months ago predicted that bran would go to \$30 in milling centers were verified when sales were made last week at \$28 at Kansas City and \$29 at Minneapolis. The uncer-tain feeding outlook, the crisis in cer-tain feeding outlook, the crisis in cer-tain dairy districts, the abundance of feed grains and good fall pastures along with open weather, have cut the demand to unusually small volume. All feeds are lower, middlings declining demand to unusually small volume. All feeds are lower, middlings declining more rapidly than bran. Mills are be-coming more unwilling, to sell, but some further decline may take place before winter demand revives. Latest quotations per ton (100-lb bags) in car lots at Chicago are: Bran \$45; stand-ard middlings \$53; flour middlings at \$62; cottonseed meal 41 per cent, \$58; cottonseed meal 36 per cent, \$55; glu-ten feed \$50; hominy feed \$58; old process oil meal \$66; tankage \$107. Detroit.—Bran, \$45@46; standard middlings \$51@52; flour middlings at \$61; coarse corn meal \$50; cracked corn \$52@53; chop \$61. HAY

\$13.50@14.

#### BEANS

Although the bean crop prospect has been improving during the last month according to the government's esti-mate as of October 1, which was 9,364,-000 bushels, it is far below the average yield of 14,600,000 bushels during the preceding six years. Current prices are below cost of production and produc-ers are declining to sell, which is making the market more steady. Latest quotations upon choice Michigan beans run \$5 f. o. b. Michigan or \$5.50 f. o. b.Chicago.

### EGGS AND POULTRY

Receipts of eggs at leading markets fell off during the past week and are running considerably below those of last year. Prices advanced on the best grades at most points. Receipts of dressed poultry at four leading cities since January 1, 1920, are 108,674,742 lbs, compared with 134,016,641 lbs a year age. Prices seared clickly is a ard middlings \$53; flour middlings at 1bs, compared with 134,016,641 lbs a \$62; cottonseed meal 41 per cent, \$58; year ago. Prices sagged slightly in a cottonseed meal 36 per cent, \$55; glu-number of markets during the past number of markets during the past week. Latest prices are as follows: process oil meal \$66; tankage \$107. Detroit.—Bran, \$45@46; standard middlings \$51@52; flour middlings at try, spring chickens  $27\frac{1}{2}$ @  $60\frac{1}{2}$ c; ordinary firsts 51@52, Poul-middlings \$51@52; flour middlings at try, spring chickens  $27\frac{1}{2}$ ; hens, general run  $22@26\frac{1}{2}$ c; roosters  $21\frac{1}{2}$ c; du decs, old and young 25@30c; geese, old and young 22@23c; turkeys, fancy 45c per 1b. Detroit.—Eggs, fresh candled 56@ to the producer when the costs of harvesting, baling, hauling the past the process of the produce of the produc

Market very slow, undertone weaker.

## Live Stock Market Service

#### DETROIT Cattle.

Market very dull at Tuesday's de-cline; 50c@\$1 lower than last week. Best heavy steers .....\$11.50@11.75 Best handy wt bu steers 9.00@10.00 Mixed steers and heifers 8.00@ 8.75 Handy light butchers .... 6.50@ 7.75 Light butchers .... 6.50@ 6.50 Common cows ..... 4.50Canners .... Choice bulls ..... Bologna bulls ..... 3.00@ 4.00 7.00 6.00@ 6.25 Stock bulls ..... 5.00@ 5.75 
 Feeders
 7.50@

 Stockers
 5.50@

 Milkers and springers....\$
 65@
 8.75 7.25 100 Veal Calves.

#### Market dull.

Best .....\$18.00@19.00 Others ..... Hogs.

Estimated receipts today are 13,000; holdover 3,739. Market 15@25c higher. Bulk of sales \$14.25@15.75; tops at Bulk of sales \$14.25@15.75; tops at \$15.90; heavy 250 lbs up medium, good and choice \$14.75@15.75; medium 200 cows \$2.50@9.50; bulls \$5.50@9.50; bulls \$5.50 \$14.25@15.40.

Market very slow, undertone weaker, Beef steers, medium and heavyweight 100 lb up choice and prime \$17@18; do medium and good \$12@16.75; do common \$9@11.75; light weight 1100 lbs down, good and choice at \$14.50@ 18.25; do common and medium \$8.25@ 14; butcher cattle, heifers, common, medium, good and choice \$6@13.25; cows, common, medium, good and choice \$5.25@11; bulls, bologna and beef \$5.25@11; canners and cutters, ows and heifers \$3.75@5; do canner steers \$4.50@16.50; feeder steers, owmon, medium, good and choice at \$7.50@11.75; stocker steers, common, medium, good and choice at \$4.50@ \$50; stocker cows and heifers, com-mon, medium, good and choice \$4.50@ \$50; stocker cows and heifers, com-mon, medium, good and choice at \$7.50@11.75; stocker steers, common, medium, good and choice \$4.50@ \$7, western range cattle, beef steers, medium, good and choice \$9@14; do cows and heifers, medium, good and choice \$7@9.75. Beep and Lambs. 7.00@16.00 choice \$7@9.75. Sheep and Lambs.

Market is steady to 25c higher.Sheep and Lambs.Pigs and yorkers ......\$16.10@16.25Estimated receipts today are 22,000.Mixed hogs ......16.00Sheep and Lambs.16.00Market 25c lower.16.00Best lambs ......\$11.00@11.50Fair lambs ......5.00@10.50Light to common ......5.00@ 8.00

#### Cattle.

Market generally dull but good of-ferings above last week's range. Shipping steers \$15@17; butchers \$9@14; yearlings \$15@17; heifers \$6@11.50; cows \$2.50@9.50; bulls \$5.50@9.50;

 30 lbs down medium, good and choice
 Sheep and Lambs.

 14.25@15.40.
 Lower than last week. Lambs \$7@

 22.75; yearlings \$6@9; wethers \$7@

 Estimated receipts today are 12,000.
 7.50; ewes \$3@6; mixed sheep \$6.50@7"

in sight and importations continuing to come into the country, it is natural that the market on butter should turn weak. The closing price on score butweak. The closing price on score but-ter were 60c at New York and 61c on each of the other markets, showing a net decline for the week in each case except Chicago. The range between 92 and 86 score price was at one time from 13c to 16c on each of the mar-kets. kets.

#### WOOL

American wool markets report only minor sales during the week and these minor sales during the week and these at somewhat lower prices. Woolen goods markets are unsettled, the re-cent marking down of prices has not stimulated buying as yet and many mills remain idle. The Australian auc-tion sales which opened during the week and which the trade has looked to as a means of establishing what wools are really worth gave little en-couragement. While there was a good demand for superior wools, the infer-ior sorts were not wanted. The prices established would make wools landed in this country about 20 to 25 per cent cheaper than values recently, quoted on domestic wools. quoted on domestic wools.

#### POTATOES

The movement of potatoes suddenly increased about 80 per cent to around 1100 cars per day and caused weak-ness in the potato markets at last week's close. There are signs of a still higher rate of shipments which points to a lower market. Maine grow-ers are said to be holding for higher prices.

ers are said to be holding for higher-prices. Chicago.—Northern Whites \$1.90@2 per cwt; Early Ohios \$1.90@2. Cleveland.—Michigan Round Whites \$4 per 150-lb sack; New Jersey Giants \$3.25 per 150-lb sack. Detroit.—Michigan \$3.25@3.50 per 150-tb sack

150-lb sack.

#### APPLES

There has been a slight improve-ment in the tone of the apple markets, but values have not been materially altered. The export movement is large, altered. The export movement is large, but total shipments to markets have increased to over 1,000 cars a day. The government's estimate for October 1 showed slight increases in the yields, both of total and commercial crops over the promise of a month ago over the promise of a month ago.

DETROIT CITY MARKET DETROIT CITY MARKET Light offerings and slow trading characterized the city markets. The potato supply is lower and growers generally were holding for \$1.40@1.50per bushel, but occasional lots moved at \$1.30; \$2.50 was the best price on fancy apples, and \$1.50@2 was the range on firsts. A very light supply of grapes was offered and the demand was slow at \$3@3.50 a bushel. There was a good demand for best grade to matoes which brought as high as \$4 per bushel. per bushel.

#### COMING LIVE STOCK SALES.

- Holsteins-October 16, John B. Martin, Grand Rapids, Michigan. Holsteins-October 18, West Michigan Sale, State Fair Grounds, 'Grand
- Rapids, Michigan.
- Holsteins—October 19-20-21, Michigan Holstein-Friesian Association. See advertisement for locations.
- Holsteins—October 22, Howell Sales Company, Fair Grounds, Howell, Michigan.
- Poland China-October 22, Evergreen Stock Farm, Greenville, Michigan.
- Poland China—October 26-30, Central Michigan Poland China Breeders' Association. See advertisement for dates and locations.
- Guernseys October 27, E. J. Hummel-berger, Lansing, Michigan. Holsteins Michigan Holstein-Friesian Association. See advertisement for dates and locations.

#### LIVE STOCK MARKETING.

(Continued from page 470).

of the representatives that the farmers credited. own organizations should undertake the work rather than wait upon an appropriation from congress, while others advised this plan because it would give the members information which of The Michigan Farmer, published they alone could use. Mr. Callander Weekly at Detroit, Michigan, for Octothey alone could use. Mr. Callander weekly at Dector, Intellight, for Octo-replied that the information would on-iy-be valuable when distributed to all County of Wayne. members which would make it impos-Before me a Notary Public in and members which would make it impos-

the telegraphic companies and news to wit bureaus through which they reach nu-merous daily papers and private indi-and business manager are: viduals. The offices of the bureau at each market also send free to persons requesting it a daily letter which dis-trequesting it a daily letter which discusses market conditions, gives detail- Detroit, Mich.

Stock Shippers' Association argues of stock). formation of more local shipping asso-formation o uniform methods of accounting by commission companies, advocated that D, uniform methods of accounting by com-mission companies, advocated that each local association provide its own insurance instead of using the more expensive commercial form, and that payments for losses should not be made in full so that growers would be more careful not to overheat or de-liver animals otherwise out of condi-tion for shipment. He favors the for-mation of cooperative commission companies

C. H. Watts, manager of the Farm-ers' Union Cooperative Commission Companies at Omaha, Kansas City, Sioux City, St. Joseph and Denver told of the success of that work. The old-est firm is located at Omaha, and startest firm is located at Omaha, and start-ed there three years ago. The first year thirty-eight per cent of the com-missions were rebated, the second year forty-six per cent, the third year fifty per cent, and the company was saving at the rate of sixty-five per cent of the commission before the recent commis-sion rate increases were put into ef-fect. It is now the largest firm at Omaha. At first only seven per cent, of the business of the members of the Farmers' Union who shipped to Omaha

to farmers for the stockers and feed-ers produced in St. Paul territory, thus

27

er.V

5

Close Germany's ramed university at les of this publication sold of distrib-Munich.—Night riders threaten to de- uted, through the mails or otherwise, stroy cotton fields in Alabama follow- to paid subscribers during the six ing the notification of gin owners that months preceding the date shown no more cotton might be ginned until above is. (This information is requir-the price should reach thirty-five or ed from daily publications only). forty cents. I B WATEBRIDE

#### Monday, October 11.

SwirtzERLAND decides to officially recognize the present Hungarian government and will resume diplomat-ic relations with that country.—It is rumored that several Cuban banking institutions are in financial difficulty

on account of heavy loans made when sugar was on the high price level. Tuesday, October 12.

(Continued from page 470). is too expensive and would be too old to be of value before tabulations could be completed. Since Mr. Callander suggested that the Bureau of Crop Estimates needed \$200,000 to start the service, assuming that the farm bureau members coop crated freely, it was suggested by some of the representatives that the farmers the suggested that the farm bureau members coop crated freely, it was suggested by some of the representatives that the farmers the suggested that the farm bureau members coop that the farmers that the

STATEMENT OF THE OWNERSHIP, MANAGEMENT, CIRCULATION, ETC., REQUIRED BY THE ACT OF AUGUST 24, 1912,

members which would make it impos-sible to keep it under cover. E. W. Baker, of Chicago, represent-ing the United States Bureau of Mar-kets, told of the work of that organi-zation in reporting the five leading live stock markets. The daily estimates of receipts are computed by the bureau so that they are official and unbiased, telegraphic reports are exchanged be tween the markets during each day and brief reports upon market changes as well as quotations are furnished to the telegraphic companies and news

1. That the names and addresses of

ed quotations, receipts, shipments and also conditions in the dressed meat trade." Knute Espe, of Ames, Iowa, presi-dent of the National Cooperative Live Stock Shippers' Association urged the formation of more local shipping asso-

Lawrence, Mary Lawrence and Morthmer Lawrence).
Mrs. G. B. Rogers, Cleveland, Ohio.
Lillian Cotton, Cleveland, Ohio.
R. M. McConville, Cleveland, Ohio.
Kate E. Munsell, Detroit, Mich.
J. F. Cunningham, Lakewood, Ohio.
L B. Waterbury, Detroit Mich.

I. R. Waterbury, Detroit, Mich. 3. That the known bondholders, mortgagees, and other security holders owning or holding bonds, mortgages, or other securities are: (If there are

of the business of the members of the Farmers' Union who shipped to Omaha came to it, but now it handles fifty-five to sixty per cent of the members' business. They have developed out-side connection so that they are able always to make a clearance without depending upon the speculators. H. M. Osborne, of the Equity Live Stock Commission Companies at St. Paul and Chicago, told how his organ-ization had developed an outlet direct to farmers for the stockers and feeddo not appear upon the books of the company as trustees, hold stock and cutting out two commissions, the spec-ulator's profit and the excessive fill between the northwestern seller and the corn belt buyer. Company as trustees, hold stock and of a bona fide owner; and this affiant has no reason to believe that any oth-er person, association, or corporation NEWS OF THE WEEK. (Continued from page 470). close Germany's famed university at ies of this publication sold or distrib-

#### I. R. WATERBURY,

Business Manager.



Mr. POULTRY FARMER: We make a specialty of White Hennery Eggs and have created a profitable market for your eggs the year around. We pay the highest premium for your Hennery Whites—We remit same day shipments arrive. Ship Often—Ship by Express GEO. R. ELDRIDGE CO.





Commission Merchants. Dressed Beef, Hogs, calves. Poultry, Live & Dressed, Provisions, etc. Correspon-dence Bolicited. Ref. Wayne County & Home Saving Bank, Bradstreet, Berder Detroit, Mich. Cad. 2378 F. L. KING & SON. Chartlotte, Mich

rams. DAN BOOHER, R. 4, Evart, Mich.
Shropshires yearling Rams that have size and type for sale. ARMSTRONG BROS., R. 3, Fowlerville, Mich.
Shropshire Rams right. OARL TOPLIFF, CARL TOPLIFF, CARL TOPLIFF, Carbon Content of the content o
Shropshires Yearling and rams, with quality, from imported Mock. W. B. McQUILLAN, B. 7, Howell, Mich.
Shropshires yearling rams. Ewes of all ages, Priced right. W. B. KELLY, Ypsilanti, Mich.
Registered Hampshire Sheep both reasonable. Lone Cedar Farm, Pontiac, Mich.
Wool-Mutton Shropshire Rams. Good strong in dividuals, royally brod, priced right. A. H. FOSTER, Allegan, Mich.
Registered Shropshire Rams and ewes all ages for Priced to sell. H. F. Mouser, R. 6, Ithaca, Mich.
Maple Lawn Farm Shropshires, rams and ram lambs of choice breeding. Wooled from nose to toes. A. E. Bacon & Son, Sheridan, Mich,
HAMPSHIRES Registered Rams all ages. Bred'for size, type, quality. Sire at head of flock, I. S. C. No. 23463. Half brother to the Grand Champion ewe at International 1919 Bred by Iowa State College. Also a few good ewes. W. W. CASLER, Ovid, Mich,
Want a Sheep? Let American Hampshire Sheep booklet with list of breeders. Write A. TYLER, 22 Woodland Ave., Detroit, Mich.
Registered Hampshire Bams ready to ship. 40 year Rhings, 20 ram Jambs also a few good ewes. A. M. Welch & Sons, J. B. Welch, Manager, Ionia. Mich.
Reg. Oxfords. Yearling rams and ram lambs. Breeding ewes and ewe lambs. Good individuals, prices right. HUGH HODGINS, Yale, Mich.
Oxford Rams For Sale Choice of 12 Beg. lamb rams at \$35. one good yearling at \$50.00. EARL O. McCARTY, Bad Axe, Mich.
Oxford Rams yearling and ram lambs and tered. H. W. MANN, R. I, Dansville, Mich.
Cotswolds yearling rams, ram lambs, Cotswolds owes all ages sired by Cana. Cotswolds dian rams. A. M. BORTEL, Britton, Mich.
For Sale Cotswold, Lincoln, Tunis and Shrop, shire sheep. Rams all ages, 1 year ewes, Ewes, lambs. L. R. KUNEY, Adrain, Mich.
For Sale A nice lot of registered Lincoln yearling, 2 yr. old and ram lambs for sale. Prices reasonable. D. T. KNIGHT, Marlette, Mich.
FOR SALE Registered Rambouilet ewes 1 to 5 years old also five year- J. W. GRAHAM, Davisburg, Mich.
For Sale fine yearling rams. Extra good fleeces, good bone and bred by a Bronghton Ham. C. B. LELAND, Ann Arbor, Mich. Phone 75225, R. B.5.
HORSES
BAY MARE For Sale, sound and right in every way, weight about 50 lbs. Must be sold at once come and see her or write L. J. Hamlin, 495 Hurlbut Ave., Detroit, Mich.
Perchercn Stallions and mares at reasonable

31-499

# Factory Whistles and Farm Production

## How modern machinery is helping to solve the problem

**F**ROM the jumble of strikes, transportation troubles, and political confusion an alarming condition stands out-Industry is draining productive labor from the nation's farms.

The "hired man" has become a rarity in many sections of the country. The factory whistle allures with the promise of high wages and short working hours. Government reports show a farm-labor supply which is only 72.4% normal.

In this grave situation modern machinery offers a partial solution. Reports of the Department of Agriculture show that the scarcity of labor has had the least effect in districts where farming is done by modern machinery.

This brings home again-and in a striking way -the advantage and efficiency of tractors.

Yet farmers who use less than scientific lubrication on their tractors are not getting utmost efficiency. They may not realize it, but their fuel consumption is excessive and their oil consumption often is positively extravagant. They are playing with loss of power, frequent breakdowns and quick depreciation.

OIL ARGOYL

OBILOIL

BB"

YORK, U

Scientific lubrication means engine results. Gargoyle Mobiloils when used as specified in our Chart of Recommendations have in hundreds of public and private tests affected a fuel economy from 17% to 25% and a saving of oil up to 70%.

To sum up: Scientific tractor lubrication insures full power, reduces breakdowns, and thus assists in the solution of a national problem-Farm Production.

Gargoyle Mobiloils are put up in I-gallon and 5-

gallon sealed cans, in 15-gallon, 30-gallon, and 55-gallon steel drums, and in wood half-barrels and barrels. Write for "Correct Lubri-

cation," a book containing complete automobile and tractor charts and other valuable data.

Mobiloils A grade for each type of motor In buying Gargoyle Mobiloils from your dealer, it is safest to purchase

igniai packages. Look for the red Gargoyle on the container. VACUUM OIL COMPANY, New York, U. S. A.

Specialists in the manufacture of high-grade lubricants for every class of machinery. Obtainable everywhere in the world.

and service and	DOMESTIC	N7 N7 1	DI 11 1 1 1 1				Eub.
	BRANCHES:	New York Boston	-Philadelphia Pittsburgh	Detroit Chicago	Minneapolis Indianapolis	Kansas City, Kan.	Waterloo Boy Wheat: Whirney. Wisconsig.

Chart of Recommendations for TRACTORS (Abbreviated Edition) How to Read the Chart

THE correct grades of Gargoyle Mobiloils for tractor engine lubrication are specified in the chart below.

elow. ) A means Cargoyle Mobiloli "A" B means Gargoyle Mobiloli "B" BB means Gargoyle Mobiloli "BB" Arc means Gargoyle Mobiloli Arctic

Are means Gargoyle Mobiloil Arctic These recommendations cover all models of tractors unless otherwise specified. Where different grades of Gargoyle Mobiloils are recommended for summer and winter use, the winter recommendations should be followed during the en-tipe period when freezing temperatures may be ex-perienced. This Chart is complied by the Vacuum Oil Com-pany's Board of Automotive Engineers, and constitutes a scientific guide to Correct Tractor Lubrication. Thy our tractor is not listed in this partial chart, con-sult the chart of Recommendations at your dealer's, or sed for booklet, "Correct Grades for all Tractors.

MAMES OF TRACTORS

1020 1010 1018 1017 . 10

