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MAKING FRIENDS OF YOUR NEIGHBORS

LIKE to know that my neighbors are my friends. So do you. I heard a man say recently, "I don't care what the people of this neighborhood think about me, I am going to do just as I have a mind to do, and it is nobody's business."

But he did not mean it. He did not know what it would mean for himself and his family to cut loose from everybody in his neighborhood in that way. He could not do it, if he tried ever so hard. We need and must have loyal friends. Real, true friends are our greatest joy.

And the only way to get loyal friends is for us to do things that will make us worthy of them. Every man will have something to do for his friend, and something to bear with him.

This does not mean that we shall be all the while fishing for the good will of others. That sort of a man we despise. No man can expect to find a friend without faults; nor can he propose himself to be so to another. Without reciprocal action there can be no continuance of real friendship. We like good, square business in the matter of winning friends. That is what we must be willing to do in our efforts to be well thought of.

Friends are discovered rather than made; there are people who are in their own nature friends, only they don't know each other. For instance, our farm work may be getting behind. We are not feeling well. It looks like rain. Over comes our good neighbor and lends a hand. He puts the very best there is in him into helping us out of our pinch. If need be, he brings his team over and stays till things are cleared up. Now, you know that man is your friend. He may be rough, a man with the bark on, but his heart is in the right place.

Do you do the same thing when he is in deep water? If you do, then he is warranted in saying, "Sam's one of the best neighbors I ever had, a true friend of us all."

Winning friends costs something. Everything worth having costs. But do you want anything you do not pay for? Of course you don't. No real man does.

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DETROIT, SEPTEMBER 6, 1919

CURRENT COMMENT

Necessities Versus Luxuries

THERE is no doubt that one of the chief causes of the general complaint regarding the high cost of living is the pres-

ent tendency among wage earners to spend their money freely for luxuries for which they pay exorbitant prices, while they attribute their inability to save to the increased cost of the primary necessities of life. A few examples will serve to illustrate this

One of the most striking of these examples will appeal with peculiar force to the dairymen who contribute to the Detroit market milk supply, and who have heard strong echoes of the conthis necessity pay a much greater increase for the same product in the form of a luxury, apparently without even a murmur of discontent. With Stock Shipthe price of ice cream sodas at seventeen cents, including the two-cent war ping Asso- many Cooperative tax, there is no apparent lack of patronage of the very numerous stands where this luxury is dispensed in al- igan is that of improving the quality at a higher cost to the consumer than the shipments. a quart of milk delivered at his door.

which we believe to be typical came to our attention during the past week. A workman entered a store in a prosperous southern Michigan county seat and asked for dress shirts. The proprietor of the store, who waited on him, showof the store, who waited on him, showof the store, who waited on him a standard line of \$3.50 shirts, it exists today, is the large number of such as he himself wore, but the cusindividual animals, two or three head, tomer was not satisfied and asked to from a farm made necessary by the tomer was not satisfied and asked to the shown a better grade. He was then wide distribution from where shipshown a line of shirts selling at \$6.00, ments are made. This feature can be the nation can boast. In exhibits, en
with the American Expedition forces.

—Following a three-day meeting, inwith the American Expedition forces.

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—Following a three-day meeting, inwith the American Expedition forces.

—Following a three-day meeting, innual fair of the Michigan State Agricultural Society will be entered in the records of this important institution of the state as ords of this important of the marking of good on sale is introduced into congress.—United States
ords of this important institution of the state as ords of this important of the marking of good on sale is introduced into congress.—United States
ords of this important of the michigan of steel workers.—A bill providing for ords of this important ords of the state as ords of this important ords of the state as ords of the state as ords of this important ords of the state as ords of this important ords of the state as ords of the state as ords of this important ords of the state as ords of the state as ords of this important ords of the state as ords

but again was not satisfied, and asked greatly improved as soon as the num-tertainment features and attendance day in the shop."

versal, but it is undoubtedly typical of several stations, and then reloading of the fair and its universal appeal the attitude of a large element of and grading them so as to have them last Monday, when the 160,000 persons is an attitude which contributes to the manded in the big markets where they sorbed in the hundreds and thousands present prosperity of the merchant, are consigned. but which bodes ill for the future, so Live stock so bunched could then be things that one can learn from intellible with cheap foodstuffs.

and entertainment at an admission quick sales at top prices for the varcost of five or ten cents. Now, with ious grades could be made. strong as to eclipse the more practical they are raised. needs of the hour, thus being typical of

will afford them a reasonable return particular interest to the farmers of the country will be prosecuted with on their investment and a fair meas-southern and central Michigan, some vigor.—State Geologist R. C. Allen resigns after ten years of service in the above capacity. present labor and economic conditions animals than that now in effect is necsumers' protests at the advance in the price of milk which was necessary to give producers a small margin over the give producers a small margin over the

ciations

O NE of the most important problems confronting the Live Stock Shipping Associations in Mich-

most infinitesimal units of food value of the animals offered to the trade and as compared with a quart of milk, yet making more intelligent grading of

Of course, the upgrading of the live This natural tendency on the part stock of a community so that every of the consuming public to be indul- animal shall be a good one of its class gent as to the price of luxuries, but is a slow process, as it is going to recritical as to the price of necessary quire considerable time to induce foodstuffs has contributed greatly to farmers to discard scrub sires and rethe prosperity of a multitude of "soft tain better females for breeding purdrink" vendors and a faw large manu- poses, and unfotunately conditions for facturers. The latter fact is attested financing live stock improvement in by the published auditors' statement many communities are not the most of the Detroit Creamery Company, the favorable. In many instances the need city's largest ice cream manufacturers, for immediate cash prompts many along these lines is a matter that showing a profit of eighteen per cent farmers to part with animals, the keep-should receive attention in the immediations.

on their capital in 1918. But it is a ing of which for a longer time would diate future. Such cooperative effort on their capital in 1916. But it is a sunday, August 31. fendency which contributes largely to prove profitable. It seems to us, how-would ultimately result in the inthe present situation, and which must ever, that members of Cooperative be a factor in the ultimate solution of Live Stock Shipping Associations the economic adjustment of living could, by working together, do considerable to influence local bankers to costs.

Another example of this tendency help finance stock feeding, and in this and quality of the stock of the live stock of the state as well as eliminating producers' shoe industries curtail production to state as well as eliminating producers' advance prices. General Pershing refuses to testify before house committee investigating affairs in connection to diemen's toll.

for the best shirt in the window dis- ber of farmers supporting cooperative from country and town, the 1919 show play. The merchant said he had them associations increases to a point where outclasses all its predecessors. but they sold for \$12.00. "All right," large shipments can be made from one comprehensive has the scope of the replied the workman, "why shouldn't station, or where it is possible for sev- fair grown to be that space here is not I wear a good shirt? I get \$8.00 per eral smaller associations to ship car- available to even list the various classloads on any particular railroad or es of exhibits. The casual observer This attitude is, of course, not uni branch by including shipments from had convincing evidence of the bigness wage earners at the present time. It come up to the grades or standards de- on the grounds were completely ab-

far as the reduction of living costs are graded at the yards and sold in carloads gently displayed exhibits. In followconcerned, since high wages dissipated of equal quality to better advantage ing issues of this journal our readers in extravagant luxuries are incompatithan individually. With hogs of like will get comprehensive reports on the quality and finish at, say two hundred various departments of the fair, with Just a few years ago when the "mov- and forty pounds, gathered in a car- special attention given to the educaies" were rapidly developing they were load, good quality steers and other tional features. a cheap source of popular diversion grades of stock similarly grouped,

the movie habit firmly established in Such practice would mean the coopthe lives of so many people, the pic- eration of the several associations inture houses have long waiting lines at greatly advanced prices, made up of patrons who formerly spent little in attending theaters. Moving pictures still greater activities so that the time partment orders the resumption of at least one great value from an advanced prices, made up of provide opening for suggestions for made by President Wilson and direction of great value from an advanced prices. attending theaters. Moving pictures still greater activities so that the time partment orders the resumption of reare of great value from an educational of at least one good man could be fully cruiting men for overseas duty.—Each point, but the thrilling serial or the ment. Among other possibilities that with a military officers' training corps. profitable houses, and their appeal to and possibly breeding stock to the best tions for permission to emigrate to the imagination may easily become so advantage of the community where American.—The afternoon markets at

A good stockman employed during a habit of thought, or lack of it, which certain times of the year could be of has contributed to the present econom- great value to the farmers of the sevic problem and which complicates its eal communities by buying and selling another appeal to the United States solution.

Carloads of the kinds of stock needed Steel Corporation before ordering a general strike.—Polish insurgents in the farmers of Michigan and the for feeding by the farmers. Similar surround the German country have not acquired this babit action with regard to the selection and country have not acquired this habit action with regard to the selection and upper country have not acquired this habit action with regard to the selection and garrison in Myslowitz.—The Ohio Suof indulgence in transient luxuries. distribution of improved breeding stock preme Court upholds public officials in
Rather are their savings invested in could be conducted with a reasonable seizing and selling at public auction

> large droves of hogs for market hesitate about joining cooperative associations and sending their well-conditioned animals to market along with those
> from farmers who him mixed carloads
> of poorly conditioned hogs. By propTrotsky's army. erly grading and shipping better lots of more uniform hogs the associations would not only secure better prices for their shipments, but it would tend to

linking up of the different associations license system for all middlemen along these lines is a matter that opens under unusually favorable

shown a line of shirts selling at \$6.00, ments are made. This feature can be the nation can boast. In exhibits, en-

of attractions and in learning the

News of the Week

Wednesday, August 27.

as well as an entertainment stand- employed in looking after the manage- high school in Detroit will be provided startling feature play is in most cases suggest themselves in this regard is —Packer representatives testify bethe more powerful magnet to draw that of disposing of stockers, feeders million Germans have filed applicaregistable between and their appeal to and possibly breeding stock to the best the Detroit city marketing places are meeting with generous patronage.

Thursday, August 28.

WORKERS' representatives in session at New York decide to make substantial comforts which will make degree of success.

life better worth the living. They will be satisfied with a labor income which branch of the live stock industry is of ment of the prohibition law through the control of the prohibiti

cost of production and insure an adequate future milk supply. Yet these
same consumers who complain so bitterly regarding the increased cost of
this necessity pay a much greater in
cost of production and insure an adeeconomists must realize this fact beping point, or the shipments from sevday and that all striking employes who
do not return to work will find their
places filled.—The proposed strike of
as high in price.

conomists must realize this fact beping point, or the shipments from sevday and that all striking employes who
do not return to work will find their
places filled.—The proposed strike of
as high in price. greater competition among the buyers leave Washington September 3 to tour would be encouraged, and the production of the treaty of Versailles.—The er would be encouraged to impove the United States Grain Corporation purquality of his hogs and finish them chases nearly a half million barrels of properly for market. As grading is now flour at from \$9.90 to \$10.30 per barrel.—France pays \$400,000,000 for all American Expeditionary Force's proplared droves of hogs for market hesis arts accountry except that with

Saturday, August 30.

their shipments, but it would tend to Hearings before the Interstate Cominduce more progressive feeders to merce Commission on grain rates from merce Commission on grain rates from merce Commission on grain rates from morthern to eastern points will be held Septetmber 8.—Field Marshal Foch allows Germany to increase the number of troops in Rhineland for three met with remarkable success and the months after the peace treaty comes extension of the work to include the into effect.—Canada establishes the

Sunday, August 31.

(Continued on page 294).



The Better Country School

HE factors which will determine the quality of the rural school are the ability of the farmer adequately to support the school and to spare his children from work in the field, while they complete the course

er hours, higher wages and lower cost into villages to live and had them go ultimate result of such a policy would of living. The farmer is demanding out to the farms each morning to work be to accentuate the drift from the higher prices and lessened cost of pro- the school, church and social problems country to the city. duction so that his income may be would be enormously simplified. But We ought to try to meet the issue by Obviously, both of these things cannot dividual farm home, an institution help himself by giving his children, happen at the same time. Which will which has reached its highest develop- out of his own earnings, the same adhave to yield, or where the line of ment in America and doubtless has vantage that children in the city have. compromise will finally fall, no one contributed more to American inde-

go in one direction without bringing ing failure in our attempts to main- this time. our industries into chaos, or in the tain in this country a permanent rural other without bringing our agriculture civilization. into decay. Both the working man and the farmer must have sufficient wage ciple that the adequate and proper ed- half century, we shall have to double to support his family fairly, and in any ucation of the children on the farm the food production of the United reasonable view both must be consid- is a part of the responsibility of the States to meet the needs of our inered. I shall speak for the farmer.

tasks which children perform, such as milking cows and picking cotton, less hurtful to the growing child than tasks performed in a sanitary and well supervised city factory? Is cheap food so fundamental to the welfare of society that we are justified in sacrificing the children of the open country that it may be had? If justice demands that the child in the city be free to attend school without the retarding influence of physical labor, should it not also demand the same protection for country children? I shall not attempt to answer these questions except by raising a more fundamental one: Is it not best for all children, both rich and poor, that they be taught to work and given an opportunity to combine reasonable but productive labor with study and recreation, all under conditions which will not rob them of their childhood, nor injure their bodies or their morals? Whichever way the last question is answered, the truth is selfevident that young people on the farm have the same rights as do those in town. General and unrestrained child labor ought not to be any more necessary on the farm than in the factory. If the head of the family in the city claims it as a right, while working alone and without capital, to be able to support his family decently, the head of the family on the farm while working a reasonable number of hours with an average capital of more than \$10,000, ought to be able to accomplish the same result.

The rural school, the great laggard in our educational procession, lacks organization, properly prepared teachers, supervision and support.

The farming population is yet too sparse and wealth of the country too thinly spread out to make it possible to duplicate in the country, by taxing From an address made by Dr. H. J. Waters at the recent meeting of the National Educational Association at Milwaukee, where labor, industry and agriculture presented their views on the subject. Dr. Waters spoke for the American Farmer.

portance than city children? Are farm for their children, and young men and longer hours of toil and fewer oppor-

the farmer alone, our city school sys- women of discernment would quickly The working man is asking for short- tem. If we collected the country folks run away from such conditions. The

raised and his hours of toil shortened. by this act we would sacrifice the in- a system under which the farmer can

Agriculture has always been a basic grades and high school. can say; but to keep in delicate ad-pendence of thought and action than industry, but never was society so justment these vital forces will call for any other single factor. In this move, dependent upon this industry as now. all the wisdom and courage we pos- also, we would be taking the final step Never would it have made so much

All the good land located where men want to live and raise families has alstate and nation as well as of the local creasing population, to say nothing of producing a meager subsistance for of taxing all the people to supplement creased standards of living. This doubhimself and his family with scant sur- the meager funds now available for the ling of food output cannot come as a plus to sell as a result of employing-rural schools, would meet the prob-corresponding increase came, a little all the daylight of all the members of lem of adequate support. But this has more than a quarter of a century ago, his family in hard physical labor, does is own dangers. It would be making by doubling the land under the plow. not meet the terms of a permanent so- of the country people objects of char- but it must come from the land now ity and would in the end impoverish in cultivation, land which is no longer At present all the child labor laws rather than enrich their lives. Also of virgin fertility, but is washed and on the statute books in this country, entering upon such a policy would be worn and in need of rest and repair. I am told, specifically exempt farm a confession that opportunity in the Increased food production henceforth children from their protecting influ-country does not enable those who live must come through greater intelliences. Are farm children of less im. there to provide a decent education gence and skill in farming, or from

tunities for those who live on the land. The only remedy for this fundamental situation, therefore, is to give the children who soon will farm, every advantage that education can afford and the stimulus that opportunity brings. Fully nine-tenths of the American farmers go directly to their occupations from the rural school. To teach these pupils with instruction which will make them more successful husbandmen and business men and better citizens is to attempt to do in the ungraded, one-room school, with an inexperienced, immature teacher, more than we hope to accomplish in the city

In considering the importance of the rural school, especially in the light of this fact, we naturally think of making toward the establishment of an Amer- difference in the welfare of everybody it an instrument for teaching the farm No one can yet say how far we may ican farm peasantry and be confess- as to how its fields are tilled as at children how to farm and partly by means of that which we teach them, and partly by means of what we will withhold from them, to keep them on A recognition by society of the prin-ready been occupied. Within the next the farm. We are always interested the that the adequate and proper ed-half century, we shall have to double in keeping farmers' children on the farm and view with alarm their coming to town to live. It does not occur to us that, if the farm possesses so To place him where he is merely community, and entering upon a policy the material required to meet the inplace in which to live and to make a career, our first duty is to our own children and that we should be bringing them up with a desire to live in the country and till the soil.

> In a democracy, the utmost freedom in the choice of an occupation is the fundamental right of every child and must not be abridged. If the public schools of the city sought to make blacksmiths of the sons of the blacksmith and to train the sons of bank directors to follow in the footsteps of their fathers, the country would be shaken with protest because the public school, the most powerful agency left us with which to promote democracy, was being employed to break down democracy.

> The boy and the girl born in the country are entitled to as much freedom of choice of occupation as are those brought up in town and are entitled to as substantial help from the public schools in making an intelligent choice. Besides, if we attempt to use the rural schools as a means of forcing country children to stay on the farm, we shall fail. Every other effort along this line which has ignored the fundamental principle of equality of opportunity has been futile.

I think it may be accepted as axiomatic that the intelligence of the people on the farm in any country finally is directly related to the income derived from the farming business, as compared with that from similar enterprises in the same community. People will stay on the farm if the opportunities are as good in agriculture as in other industries. If the opportunities are not as good, the intelligent and ambitious will leave the farm. If farming is allowed to become unprofitable, as compared with other occupations, it will be given over to a less efficient class than that which now tills our soil.

While the rural school curriculum may need to be somewhat reorganized we must keep clearly in mind that when country and city children meet in high school or college there must be no inequality in opportunity or choice of course, and no difference in the thoroughness with which they have been prepared to carry higher work. And if the larger group which will never go beyond the elementary grades, when they meet from the country and (Continued on page 262).

Children of the Farm Must Have Equal Opportunities with City Children to Get an Education and Choose a Career.



News of the Agricultural World

PROMOTING RURAL TRUCK LINES.

tee, the duties of which will be to of the big five. formulate a program for the develop-

Buffalo is the center of an extensive only 54.5 miles." system of rural motor truck express lines radiating out along the state-report says, of the private car owner- Sales Corporation. roads in every direction for a distance ship has developed the fact that while of fifty miles.

side; another farmer a crate of eggs per cent in 1914, and 4.3 per cent in or poultry. Still other farmers have 1917. for market a few bushels of carots, or potatoes or other vegetables.

The truck comes along, gathers up these small consignments, delivers them to the city market, makes the plies odered by the farmers.

other products to pay him to make a tember 5 to 10, while some of the ear- manufacturers.

Many small lots of apples or other fruit that formerly went to waste on the farm for want of a market, are now made to yield profitable returns through the medium of the motor ex-

Some of the truck lines are owned by commission merchants in Buffalo, others by individuals and transportation companies. It will be one of the functions of the state committee to regulate these lines to prevent overlapping and wasteful competition, and develop a more efficient system of transportation and distribution.-E. R.

WOULD CONTROL PACKERS' CARS.

ECLARING that the step is necesand operate them. The big packers, jects for the junk dealer. port of fresh meat.

cure from the railroads advantages ov- Michigan where many farmers can find few days each year. It pays to have a cure from the railroads advantages ovmichigan where many farmers can find few days each year. It pays to have a
er competing shippers. Formerly in valuable machines without protection tool shed whenever it is possible. It
the shape of direct rebates, these adin a very short drive from their surely pays a wonderful rate of intervantages are now usually in expedited
homes.

est on the investment and not only
service to the big packer cars; in favorable mixing rules which include all both a machine saver and a time-savin condition so that they will always
their diversified products and even er. It is worth money to always know be ready for use with a minimum
many articles not related to the packwhere the tools are located. It is worth amount of repairing.

R. G. K.

There are two ways of getting a better cow. One is to put one's hand into his pocket—deep, in these days—
and pay for her; the other is to grow
and pay for her; the other is to grow
their diversified products and even er. It is worth money to always know be ready for use with a minimum
You make a better team, and team
work in the dairy is what counts.

ing industry; by allowances paid to lier varieties will be in sooner. Growsome of the big packers by carriers ers are talking in figures of \$100 per in France, Holland, and England while for a part of the transportation ser- ton as they say that the cost of pro- staple American furs are selling brisk-O promote rural motor truck lines vice; by favorable arrangements and duction has increased and they would ly in Belgium, France and the neutral for quick delivery of perishable lease of stock yards by the railroads have to have that figure to net as countries. Apparently high prices have goods from farms to markets, Gover- to some of the big packers; and by the much as they did last year. nor Smith, of New York state, has ap-sale to the railroads of bumping posts pointed a highway transport commit-manufactured by a subsidiary of one

ment of rural motor truck express cars are misused and diverted, frethe public in the operation of motor age for cars of their competitors, the independent packing companies, was

packers claim losses, "a proper revi- "I visited England, France, Belgium ly all kinds is very short. As goods

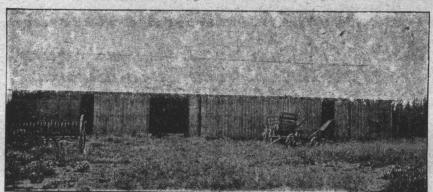
GRAPE CROP OUTLOOK GOOD.

GOOD TRADE IN FURS.

routes where they will aid most in giv- quently being out of his service for ex- time is just about as prosperous as it chasing their furs direct in America. ing the farmer a more direct outlet for tended periods, in several instances as is in the United States, according to I have found the same tendency in his produce; to give publicity to the long as six months. In 1917 the cars Norman H. Bacon, who returned re-other European countries, so that, if public utility of the rural motor ex- of the "big five" and their subsidiary cently from an extended business trip transportation facilities permit, it is press, and to recommend legislation companies maintained an average of abroad. Mr. Bacon was for fifteen very likely that the fall and winter necessary to protect the interests of 80.8 miles per car day, while the aver- years Fur Trade Commissioner of the auction sales will be attended by a The commission's investigation, the dent of the New York Fur Auction made here for European account.

farmers on the return trip. They also be a big one and the quality is very was quicker than we were in realizing bring back groceries, and other sup- fine. Grape juice manufacturers have the great opportunities open to trade THE BETTER COUNTRY SCHOOL. contracted for heavy supplies, but no as soon as the peoples of the world re-This plan encourages the growing of price has been set in the contracts as turned to their peace-time occupations. a variety of products, and helps the the current market price will be paid. The early spring showed a general retown to transact business or discharge small farmer who formerly was handi- The contracts call for the entire crop vival of the fur business over there, capped by not having for sale at any of the grower at the market. Con- with prices increasing daily and with one time enough garden truck, fruit or cords will move beginning about Sep- a steady demand from both dealers and

Housing Farm Tools



Federal Trade Commission in a special cost of producing farm crops. If a cer- work may be impossible. other facilities as well as the cars, be undoubtedly harbor many thousands needs the best of care.

the five largest packing companies, the good care have greatly increased their paired in bad weather when other long time to come, perhaps always, we

cent of all the refrigerator equipment of Agriculture the farmers of that vestment so that it will yield the max-unaided to build and support a school in the country suitable for the trans- state are losing a million dollars per imum of service. City consumers who system in the country comparable with year on machines that are left out in think of modern farming as easily that of the city is true, yet the farmer various pools," the report says in part. shed would yield twenty-nine per cent Farmers do know what it costs and erty does, he will have a vastly better "In turn the volume of traffic of the on \$1,000 worth of machinery. Surely how much money can be tied up in school than now. five packers has enabled them to se- the condition is not much better in implements which are only needed a

"Fine furs are now in good demand not proved a deterrent to the fur manufacturers throughout Europe.

"I found it interesting to note that a syndicate of large French buyers, "The small independent packers' THE fur business in the leading who had heretofore dealt in Leipsic, are misused and diverted, fre-Hudson's Bay Company of Canada, very large number of European buywith headquarters at Montreal, but ers. In any event, there are certain to about four months ago became presi- be numerous and large purchases

"There can be no doubt that the "While on the other side," he said, world's stock of raw furs of practical-The trucks are operated on schedule sion of their car accounts" shows car and the neutral countries in an en- came to market in Europe they were time. One farmer delivers a few bush- operation has netted some profit. This deavor to get a first-hand view of re- quickly snapped up with an advance in els of apples or pears along the road- amounted to 6.8 per cent in 1912, 3.4 construction in Europe as it affected prices. Unless the exchange situation the fur trade in general, and especially militates too strongly against Europe, New York as the fur market of the the late belligerent and neutral counworld. In all of the countries I visited tries on the other side of the Atlantic I found the fur business in a prosper- will be prepared to pay even more ous condition. Apparently the sudden than the present high prices, as the PROSPECTS continue good for a signing of the armistice brought about manufacturers are anxious to obtain successful season for the grape a slump in Europe, just as it did in raw materials with which to bring sales, and delivers the returns to the growers of Michigan as the yield will this country, but if anything Europe their factories to capacity production.

(Concluded from preceding page). their duties, as members of a great democracy, there must be no advantage which one group has over the other by reason of a better education obtained in the public schools.

With this conception of our school system in mind, I cannot see how the rural school should be essentially different from the town school in its object, its scope and its excellence. It all seems to me to be summed up in about these statements:

Children of the farm must have equal opportunities with city children to get an education and choose a career. Everyone familiar with the facts knows that at present they do not have such opportunities. To make this possible there must be larger school units in the country and there must be a good high school within easy reach of every country boy and girl. But important as we recognize the consolidation of schools to be, we should not ECLARING that the step is neces- AT the present price of farm tools money to have them in a protected make the mistake of relying upon this sary to control the business of A farmers who have not given them shed so that they can be oiled and removement as the sole remedy. For a shall have many one-room, one-teacher report to President Wilson, recom- tain implement lasts ten years, its cost A place in the tool shed for the schools and for years yet the majority mends that the operation of refriger- can be divided up among ten crops. If scythe and the garden tools comes in of our country children will be eduator cars, and of cars used for trans- it only lasts five years, the charge handy. Then they can always be found cated in such schools. It is here, portation of meat animals, be declared against each crop for the use of that when needed. The power sprayer therefore, that attention should be cengovernment monopoly. It recom- tool must be twice as great. Nothing which is only used a few days each tered. The primary need is a better mends further that the property con- saves tools more than a dry storage year can be protected from the weath- paid teacher. So long as the farmer is cerned, including icing stations and place. The fence corners of the state er and it is an expensive outfit which willing to pay his farm hand higher wages to plow his fields and feed his acquired by the government and rail- of dollars' worth of tools that are rust- On the modern farm there is a good stock than to the teacher employed to roads thereafter be licensed to own ing out and rapidly becoming fit sub- chance to invest a large amount of teach his children, there is little hope. money in equipment and it is danger- While all that has already been said the report says, now own ninety per According to the Wisconsin College ous business not to protect that in regarding the inability of the farmer "The present country-wide system of the winter. They say that ten per done with up-to-date tools do not real- is able to support a better school than distribution by the five big packers cent of the farm machinery of the ize the large amount of capital that is he now has. When his property pays has grown up from their control of re- state is left out in the snow and rain necessary to properly equip a large as much school tax in proportion to its frigerator car lines in conjunction with while \$400 invested in an implement farm with the modern machinery, value and earning power as town prop-



The Fair with a Mission



amusements for its patrons. In disimproving the character and educational features of the big fair, Mr. satisfaction that the fairs which are best filling their mission as an uplifting factor in agricultural life are those which are forcing the midway features into the background, replacing them with free amusements appropriate for presentation in front of the grandstand, and which may be secured at an outlay proportionate to the amount of money set aside by the board for such features."

Mr. Lilly is a man capable of evolving plans and successfully putting them into action, rather than one who looks after routine work. By prevailing upon his board of directors to adopt his ideas of making the West Michigan Fair one of greater agricultural and educational value and providing cleaner and more interesting amusements he set about the problem of securing such features and innovations as will annually afford something

the efficient management of Sec- stuff, labeled instructive amusement will be in the years to come. From the ments and modern farm equipment retary Lyman A. Lilly, is mak- has never found a welcome there and results of last year's efforts along from all parts of the country have aling every effort possible to retain all unless there is a radical change, never these lines the future holds great ways made it a point to make strong of the live features of an agricultural will find one. But the discoverer of promise for this kind of work at the exhibits at the West Michigan Fair. and live stock exhibition, and at the something new in automobile speed; West Michigan Fair. same time provide clean and healthy something different in dirigible and something faster than 1.58 in trotting tural features of this fair is the magwill always find a welcome. People nificent horticultural exhibit. West who visit this fair will always find new Michigan is famous for its good vine-

along strictly agricultural and educa- famous for the excellence of its exhibed falling off in his box office receipts. agriculture of the territory it serves. No great fair can draw large crowds ed with their introduction.

HE West Michigan Fair, under a minute on a regulation track. Trashy the work is being promoted than it

One of the most impressing agricul- diversified farmers of this section and startling things that are worth yards and orchards, and it is only natural that these interests be given prop-Many people have an idea that a er consideration at the fair. The fact big fair can be conducted successfully that this phase of the fair has become tional lines, but the secretary who its merely goes to show that the manneglects to provide interesting innova- agement is alive to the importance of tions soon finds to his sorrow a decid-making it really representative of the

While the horticultural features of or prosper financially without depend- the territory have been given due ing upon some kind of moern innova- prominence the live stock departments tions to draw out the people to the of the fair have never been neglected. territory it is serving. If there is any- During the past eighteen years the thing that a big fair needs more than beef and dairy cattle interests have

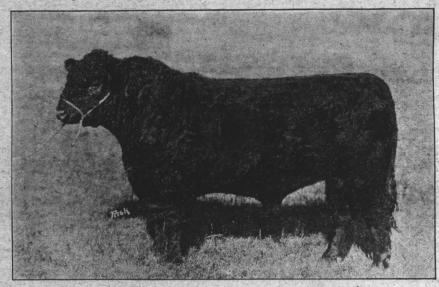
Manufacturers of agricultural imple-The many requirements of the rich



anything else it is innovations, espe-been encouraged and the competition making it especially profitable for cussing the problem he has faced in cially when practical men are entrust- among the various breeds and classes them to cultivate this field thoroughly. has been so keen that few breeders Inventive genius has blessed in rare Another matter in which Mr. Lilly have found it easy to capture the blue. fashion the farmers of America and it Lilly said: "My experience as secre has shown a progressive spirit is that Competition has at all times been open is only natural that these blessings tary of two county fairs proved to my of increasing the interest and support to the world, and that fact has made should find sxpression at such places as the big fairs. It is the constant aim of the management to foster and encourage the exhibition of all laborsaving implements that will lighten the burdens of the farmers of Michigan.

> Much of Mr. Lilly's success as secretary is due to the efforts of Dr. S. E. Dodson, one of Michigan's progressive men whose fancy runs to horses of all kinds. While Dr. Dodson is not from the soil he is an enthusiastic admirer of the pure-bred horse and his work in promoting Memorial Day work-horse parades has made him a national figure in exhibitions where good horses are a prominent feature.

> In short, the West Michigan fair has always been an excellent place for the farmers of Michigan to meet and visualize the improvement in the live stock and agriculture of the state and nation. What has been done to build up these features has not been neglected in the poultry and pet stock departments. These exhibits always affording interest to visitors who find them more interesting than horticulture and general live stock husbandry. Horse racing and other features that go to make up a first-class big fair are all given proper consideration, making it of interest to every member of the family.



out of the ordinary; something not to of the young people of West Michigan. it a battleground for some of the best be seen except at some similar big ex- The increasing interest in the exhibits herds of the country. Sheep and West Michigan people, most of them rapidly. Such work is sure to give the ums and despite the encroachments of at least, saw their first aeroplane at future fairs a lot of good material to power vehicles and implements the the West Michigan Fair, and also saw build upon and create a greater inter- horse department has been fostered their first female aviator. At this fair est in the breeding and exhibiting of and premiums have been kept at the a host of them saw their first automo- pure-bred live stock. This kind of very highest level, making it worth bile races and learned, through actual work requires a lot of painstaking at while for the breeders of the state to timing, that the gasoline car could tention on the part of the secretary make Grand Rapids an ideal place to travel at the rate of more than a mile and its results are less apparent while make comparisons of their stock.

of the boys' and girls' clubs is growing swine have been given liberal premi-



The Big Idea In Farm Bureau Work

J. C. Sailor, State Farm Bureau Organizer of Illinois Tells Michigan Farmers How Their Brothers in the Middle West are Getting Real Service Out of the Farm Bureau.

The membership fee was impossible for the association to do was withdrawn. uitable and fair to all.

will desire to stay on the farm because Some thought that a fee of \$2.50 to ization decided upon. the business is worth while. We want the county farm bureau would take We have now gone far enough with ditions and work justice.

sion folks who handled the farmers' grain stood on the tracks five to ten days without a single man bidding for it, and when we sold we were obliged to take from three to five cents under the market. The result was that we were forced to extend our organizations to handle these problems for our farmers. As a result our state, Iowa, Nebraska and other grain growing states were organized to take up the problems connected with the nandling of our grain crops.

At that time transportation companies gave the line-house shipper ten dollars' rebate on every carload of grain that they handled for him. This gave the line shipper an advantage of practically one cent a bushel. We also found it almost impossible to secure sites for elevators. The prices offered for grains varied in different communities to make it as difficult as possible for the cooperative elevators to succeed. In fact, every device that the old-line dealers could use was employed to our disadvantage.

have done. It is important to have grading grains was deplorable. At one boy to stay on the farm when he comes these farmers subscribed \$100, making money enough back of an organization time a saloon keeper of Chicago who back, but he will not do this if it is not a fund of \$10,000 to start the organizato promote anything that is right, eq- did not know wheat from rye or corn a profitable business. We must there- tion work. That was the first real We do not, as farm folks, wish to spector through his political influence. ization to enable it to put our agricul- Association had. control everything, but we ought to be This situation has since been improv-ture on a level with other industries." in a position to stand up and correct ed and we now have better grading an evil when we come in contact with rules, and inspectors who have passed present began to realize what a pow- president, Mr. Scott, prepared for acit. The business of the state associa- difficult civil service examinations. We erful farmers' organization might do tion. They planned to go into the vartion in Illinois is not to destroy other have also insisted on and secured a in a state like Illinois. They realized ious counties and put on a campaign interests, but to understand the oth- moisture test that is giving quite sat- further that to secure service from to build up the membership in the er interests' problems and to help them isfactory results. Many other things such an organization ample funds must county farm bureaus. Mr. D. O. Thompto understand ours; to let them know of direct financial interest to our farm- be available to meet situations as they son, advisor of McLean county, a man that we have an investment as well as ers have been favorably adjusted arrived. As a result, these men adop-

They simply boycotted us. Our were supposed to do the things that a for their time.

N Illinois we organized the State During the past fifteen years, espe- state organization should do for the Now this is a farmers organization. years ago. The association was have developed organizations in twelve inadequate, so last February about in the directorship of our work who made up of two representatives from states and through them have correct- three hundred representative farmers does not actually own a farm and opident and a treasurer to do business Three times during the past five years tion of financing the state association to pull when we use public money. for the farm folks of Illinois. These we have had hearings before the inter- without reaching any decision. On the This is our own business and we should the farmer's cause in the legislature, in ized effort and the employment of cap-right direction. He said: "I have a our working plans. congress or wherever problems of vital able men, we were able to prevent the boy in France, and if this organization An executive board of thirteen men importance to the farmer were being advancement of freight rates. Last doesn't provide funds sufficient to get was agreed upon. One man was seconsidered. About twenty-five coun- February the government proposed to behind our farm problems to make lected from each of the thirteen conties in Illinois had affiliated with the advance rates again but we made our farming what it should be for my boy gressional districts of the state. Every state organization up to January of protest, and when the government saw when he returns the whole business one of these men owns a farm and we had an organization extending isn't worth anything. I had better quit works it. These men started the state one dollar but this small fee made it through twelve states, the proposal the farming business right now unless association work. They called a meetwe can have some means of handling ing of one hundred representative the things the farm folks needed to Not many years ago the system of our problems effectively. I want my farmers, and at that meeting each of from oats, was selected as grain in fore put enough money into this organ- money that the Illinois Agricultural

they, that we have overhead expenses through the power of this organization. ted a plan which provides that each and are entitled to a fair margin of Let us return now to farm bureau member of a county association pays profit, that if we work sixteen hours a problems. In Illinois we had practical- to the state organization a fee of \$5.00 day we should be paid for sixteen ly the same difficulties you have had per year. Now, following out this plan hours, and if we work eight hours we here in Michigan in starting these every member we have taken into the should be paid for the eight hours. In farm bureaus. One of the big prob- farm bureau since the fifteenth of last other words, we should have a profit lems has been the method of finance. March has paid a fee of \$5.00 to the in our business; we should make it so In the past the fee required to become state association, besides paying to the mend farmers from their respective attractive that the farm boys and girls a member of the bureau has varied. county whatever fee the county organ-

to make our homes better, our roads, care of all expenses; others thought the work to get an idea about the serour schools and our community better. \$5.00 would be necessary, and the ex-vice that can be rendered, and we are We can do these things and more if tremists held that \$10 was none too finding that there is no limit to what we will get behind an organization much. The tendency among those best our people are asking us to do. We with purpose and money, and select acquainted with the work is to in- must send men to Washington, to the proper men to carry out common- crease their estimates of the amount Springfield, to the phosphate fields of sense plans that aim to improve con- of money required to take care of the Tennessee and to every conference farmer's interests. In Illinois we are that has a bearing upon agriculture. I want to tell you of some of the trying to establish a uniform fee suffi- These representatives voice the sentithings that we were forced to do in ciently large to enable the organiza- ments of the farmer members, and Illinois. We organized cooperative el. tion to do effective work. If we put they learn something of the problems evators in 1903, but could not find a ten cents in this work, we will ex- of other industries. We are satisfied Chicago that would handle our pro- vice, but if we put ten dollars into it, derstandings many of our difficulties duce. Why? Because the organized we can then expect ten dollars' worth, will be easily ironed out. But to do grain men served notice on commis- A Poor Farmer Gets the Right Vision, these things requires a considerable Our state organization was support- capital, for only men who have a sucgrain that such commission men could ed by a \$100 fee from each of the or-cessful business, can be sent upon such not do business with the old-line hous- ganized counties. With this money we missions, and these men must be paid

Agricultural Association three cially the last four or five years, we farmer members. But this was found We do not expect anybody to be active county having a farm bureau ed many abuses. For instance, corpor and farm advisors met at Peoria and erate it, and furthermore, we do not From these representatives we select- ations have been active in advancing took up the matter of reorganization, want to run the organization with pubed a chairman, a secretary, a vice-pres- freight rates upon farm products. For a whole day we debated the ques- lic funds. There are too many strings officials were to represent the farmers state commerce commission and the second day a farmer from one of the not expect other classes of people to wherever they needed to be represent- utilities commission of our state on poorest agricultural counties of the aid us in running it. Furthermore, outed. They were supposed to champion the rate question. Through our organ- state started the ball rolling in the side financial help would compromise

With this fund the thirteen members This speech started things. The men of the executive committee and the of exceptional ability, was hired as state secretary. Mr. Thompson called me from my farm work where I had been constantly employed for the past thirty-three years, to get farmers who would go out and solicit memberships for the farm bureau. County agricultural advisors were asked to recomcounties who might be able to get away and help in this oganization work. In less than a week I had seven prospects, out of which I picked four that I felt were the right fellows. They had a vision of the future, understood pretty well the psychology of men, could meet the arguments of a farmer on most any question he might propose, and give an intelligent answer in a way that would satisfy the suspicious.

We started in Lake county. Here they had 400 members in the farm bureau, and we added 489 more. At that time the federal government threatenevators in 1903, but could not find a ed to prosecute the dairy farmers for single commission house in the city of pect to secure ten cents' worth of ser-that through these expressions and unfixing the milk prices, and this helped ed to prosecute the dairy farmers for us in securing followers. In Iroquois county we secured 447 members by merely calling a general meeting and asking for \$5.00 memberships. next county was Woodford, which we worked during very inclement weather where we secured 429 members. In McLean county we had nine men working, which was later increased to twelve, and in about eighteen days' time with some days lost because of rain, we got 2,308 farmers into the organization at \$10 apiece. Here many of the farmers asked what we were going to do with all the money we were getting, but up to this time we did not have money enough to carry on the organization work and send men to the places where the farmers should be represented without borrowing on the side. In Logan county eight men secured 1,054 memberships, and in De Kalb county ninety-seven per cent of the farmers or 2,022 men became members of the farm bureau. Here they had experienced seven years of farm bureau work and the response to our appeal is a fitting testimonial of what these successful farmers think of the farm bureau organization. Then in McHenry county not so well organized, but supplied with a progressive coun-

(Continued on page 289).

It will be of interest to the farmers of this state to know that the Michigan State Farm Bureau Association is being organized along the same lines as those followed by Illinois. For that reason this article by Mr. Sailor should receive the closest attention of our farmer readers.

Utilizing Cull Apples

By F. B. McMillin

Therefore it is surely in order to market. again call special attention to the imapples affords the grower.

fore a short cut to conserving the rich be retarded or prevented altogether. life-sustaining elements possessed by ing up the juice.

ing and nourishing, but most of them upy consistency. It has an extensive are in concentrated form convenient use both commercially and in the to market and easy to preserve. Sweet kitchen, being especially desirable for pasteurized cider are all in active de- culinary uses. mand and can be sold at a better net the apples in a fresh condition.

has a distinct value as jelly stock be- apple jelly offered. cause of its dectin content which is juice being used for making vinegar or

fermentation.

N these days it is unwise to over- One of the staple food products from look any resources that will add waste apples that is in universal degood nourishing food to the na- mand is cider vinegar. Pure cider vinegar commands a premium on the

In the process of transforming cider portance of properly utilizing that into vinegar; two distinct fermantalarge proportion of the apple crop tions take place. First is the vinous which grades below standard. In many or alcoholic fermentation which is the states the percentage of cull or cider changing of the sugar of the cider into apples runs fully one-third of the total alcohol, caused by the action of cerand it is frequently estimated that tain natural yeast bacteria. Second is thousands of tons of such apples are the acetic fermentation by which the wasted each year. No one will deny alcohol thus formed is changed to vinthat this loss along with all other food egar acid or acetic acid. The alcoholic waste should be reduced to a minimum. fermentation may be accelerated by Another important consideration is the the addition of yeast, using a cake to good profit that the utilizing of these each five gallons, dissolved in warm water before adding. The acetic fer-While a portion of the large culls mentation is also aided by the addition may be evaporated to excellent advan- of good vinegar containing some mothtage, the most practical way of divert- er of vinager. It is important to aling this enormous waste into good low plenty of room for air in the barfood is by pressing. Practically all rel during all stages of fermentation the valuable and nutritive elements of and also to maintain the temperature fruits are contained in the juice. The between sixty and eighty degrees. other parts consist largely of cellular Care should be taken not to start the tissue and are of little value except to second fermentation until all the sugar retain the juice, which in ripe apples in the cider is changed into alcohol, runs as high as ninety per cent. There- otherwise the change to vinegar will

There exists in this country a poteneven the smallest of cull apples is by tial market for boiled cider that would first grating and pressing, then work- consume a hundred times the amount now produced if the product could only A modern hydraulic cider press will be obtained. Boiled cider is the fresh extract an average of a little over four juice concentrated by evaporation in gallons of cider from each bushel of the ratio of five gallons reduced to ordinary undergrades. This juice can one. In this form it will remain in a be readily converted into a variety of perfect state of preservation for years. food products that are not only appetiz- It is dark brown in color and of a syrcider, cider vinegar, boiled cider, apple making mince meat and apple butter syrup, apple jelly, apple butter and as well as having a multitude of other

By continuing the evaporating procprofit than is usually obtained from ess until the cider is reduced to the ratio of seven to one the product be-Even the pomace need not be wast- comes jelly, which makes a delightful ed. It is being used extensively as feed tart spread. To please varied tastes for dairy and beef cattle, and for hogs it may be sweetened and any desired and sheep. Many pronounce it equal flavoring may be added. A ready to ordinary corn silage. Pomace also market at attractive prices awaits all

Sugar and sugar products are high not impaired by drying. Frequently and a practical use of the generous the pomace is repressed, the resulting sugar content of apples is, therefore, especially acceptable. An extensive series of experiments by the Depart-Fresh sweet cider and pasteurized ment of Agriculture resulted in the decider are highly recommended as a velopment of a method of making aphealth drink by eminent physicians ple table syrup which produces an atand scientists. Sweet cider is a tonic tractive article of very fine flavor. as well as a nutrient, containing nat- The process is as follows: Stir into ural salts and acids of special value in seven gallons of sweet cider five the correcting of stomach complaints ounces of powdered calcium carbonate and liver and kidney trouble. Pure -a harmless, low-priced chemicalsweet cider can readily be made avail- and boil in a large kettle five minutes. able as a delightful home beverage the If a large vessel is not available the year around and is far superior to the cider may be boiled in batches. Pour ordinary type of soft drinks. Chemi- the cider, after boiling, into glass jars cal preservatives should be avoided, and allow it to settle until perfectly but pasteurized to one hundred and clear, which will require about seven sixty degrees for two hours and seal-hours. Return the clear liquid to the ing tight is effective for preventing preserving kettle, being careful not to (Continued on page 290).



In Traverse County where Cherries Grow to Perfection.

Feeding the Millions

NCREASING the food supply of the world is the most vital problem which man must solve. The burden of this solution rests heavily upon the shoulders of the farmers of America.

The service rendered by the Standard Oil Company (Indiana) in producing fuel and lubricants for the economical and efficient operation of farm machinery has made it possible for the farmer to cultivate a greater acreage, produce larger crops, and get them to market at least expense.

By maintaing its comprehensive system of distribution, the Standard Oil Company (Indiana) makes it possible for the farmer to get his requirements of petroleum products easily, regularly and quickly.

By virtue of this complete service on the part of the Standard Oil Company (Indiana), he may, literally, "make hay while the sun shines."

He is independent of the health or endurance of horses. He can plow, cultivate or harvest when these tasks should be done. He can have a complete cycle of activity, operating even by shifts, if necessary. He can plan his operations on a definite schedule to produce a steady, constant supply of farm products for you and your family.

Thus is illustrated how you benefit by the service rendered by the Standard Oil Company (Indiana) to the farmer. These are benefits accruing to the world at large which accentuate the usefulness of the Standard Oil Company (Indiana) as a public servant, and emphasize how completely it discharges its obligation as such.

Standard Oil Company

(Indiana)

910 S. Michigan Avenue,

Chicago, Ill.

The Farmer and the H. C. of L.

The Following Article is endorsed by the Officers of the Indiana, Illinois, Ohio, Iowa, Nebraska and Michigan Farm Bureaus.

part of the blame.

well-nigh impossible.

increasing production in the heart of terially the practical working hours of production which shortens supply and has been delayed and interfered with the meat, milk and grain producing sections of the United States, indorse the following statements through their authorized officers, O. E. Bradfute, president Ohio Farm Bureau Federation; J. G. Brown, president Indiana Federation of Farmers' Associations; D. O. Thompson, secretary Illinois Agricultural Association; J. R. Howard, president Iowa Farm Bureau Federation, and F. C. Crocker, president Nebraska Farm Bureau Association.

Original Price Not Cause.

The high cost of living is not due to the original price of the farm prodtermine the cost of a loaf of bread, cerned. Fixing a resale price at \$1.50 a bushel would affect, if reflected to the con-

when these are produced in surplus pulling the short end of the hitch. against the season of short supply. bles, fruits, eggs and poultry at a price ing, "Thou art the culprit." disastrous to the producer, and create a dearth of these products out of season at a prohibitive price. But food stagnation in production of manufac- meal consisting of steak, potatoes, foreign foe farm production was not storage for speculative purposes is in- tured goods and prepared foodstuffs, corn, bread and butter and coffee, cost- shortened; it was increased tremen-

Exports Not to Blame.

ation of food heavy purchaser. An embargo on food- price of fresh meats advanced fifteen ar, four cents; corn, twenty cents, mak- ning his next year's program of work. stuffs to bring down the high cost of to thirty-five per cent, directly due to ing a total of eighty-two cents. This living will be as demoralizing to Amer- the short kill and consequent small is about seven per cent of the total Now is the seeding season for wheat. ican agriculture as the embargo placed supply of fresh meats. In Chicago one cost. A fifty per cent reduction in the Now is the time the farmer selects the on foodstuffs was to French agricul- hundred thousand men have been out price of these products to the producer glits and brood sows that will give ture in the time of Louis XVI. More- of work for months and all building op- would have lessened the total cost of birth to the 1920 pig crop. Now is the over, the high cost is not merely a lo- erations have been at a standstill be- the whole meal on the hotel table only time when the dairyman determines cal or national consideration. It is a cause the carpenters refused to work forty-one cents; smaller by half than the number of cows he wants to milk edy at home to create and foster anar- up building operations in many small by the way, is not included in the time the cattle feeder determines

food production on their farms. Pres- lack of desire or effort on the part of Chicago Electric Railway employes consumers in purchasing, including ent agitation over the high cost of liv- the farmers to produce to the limit of which threw thousands out of employ- probably all the evils that are contribing attempts to saddle in large meas- their physical ability. Not within the ment on account of lack of electric uting in large measure to the high cost ure responsibility for high prices on knowledge of the present generation power in the towns along this line left of living to the consumer. A reduction farmers, who, while discerning their have all the farmers so extended their the small Aurora meat packing houses to the producer in the price of these share, justly refuse to bear any great every energy in a concentrated effort without power to run their refrigerat- foodstuffs to a point which would stagto produce to the last kernel and pound ing plant. There were about ten thou- nate production of grains, produce and In the present chaotic state of af- all the grain and meat products need- sand pounds of meat spoiling. It is meats, would have an inconsequential fairs the farmer says to him who wish- ed to feed a hungry world. The oper- said the manager appealed to the head effect upon final prices to the cones to arrive at the facts as they are, ation of the short-hour day in the in- of the union for power to keep this sumer. "Come, let us reason together." In dustrial centers and talk of shorter refrigerating plant running and prevent The high cost of living is due to the the whirl of affairs clear thinking is hours and ever advancing pay has the spoiling of this meat, and the in-failure of practically all folks to pracdifficult; formulation of statements made it well nigh impossible for any- solent reply hurled back was, "I don't tice even ordinary economy in public ell-nigh impossible. where near the normal supply of help give a damn if all the meat in the Unit- and private life. A program of hard Today, however, the farm bureau to be maintained on farms. The day- ed States rots." Such are a few which road building, contracted at almost federation of Ohio, Indiana, Illinois, light saving plan has mitigated against the daily press records of the many in- twice pre-war costs per mile, due to ad-Iowa and Nebraska, potent factors for maximum production by reducing ma- stances of premeditated stagnation in vance of price of materials and labor,

HE members of the state farm be the policy of the United States even miles of the city, as well as in Chicago. This illustration shows the extremes bureau federations must now de- at this critical juncture. Following the Chicago street car of exorbitant profits of the middlement cide the extent of next year's The high cost of living is not due to strike, a strike of the Aurora, Elgin & and the extravagant practices in the

because of the fact that delivery of building material has been delayed by tying up transportation facilities.

Rail Men's Demands.

The question of lack of economy of public spending was brought within the focus of the American public's attention in July when the railway brotherhoods demanded of President Wilson that he bring down the cost of living immediately, threatening a demand in wage increase amounting to a total of \$800,000,000 a year, payable necessarily from one of two sources-revenues from increase of freight rates or from deficiency appropriation, either of which would add to the cost of living.

A lack of practicing economies in private life may be illustrated without ment, resorts and watering places, are crowded with beautifully gowned womprice of shoe shines has doubled and trebled, yet one must wait his furn, though he could shine his own shoes at home for less than one cent. So illustrations might be multiplied, all showing that lack of practicing plain economy is a great contributing factor in maintaining the high cost of living.

"Passing the Buck."

The high cost of living is due to shifting individual responsibility for the present state of affairs and each component of the people of the nation seeking self satisfaction, instead of the answer to the great world question. This is our national state of and individual best to produce more goods, so that there may be enough for all at a reasonable price, each is try-

There is a limited supply in the tion so that all would have plenty.

Under war pressure when fighting a dously. Upon the fair or unfair attitude and action of capitalistic monop-Of this \$11 the producer of the food, olies and organized labor, upon the or a mill, adds to the farmer, got about as follows: Beet, sanity of their next immediate proany more than it is due to our heavy the high cost of living. Shortly after two pounds, thirty-six cents; potatoes, nouncements affecting national and inexports of manufactured goods, ma- a strike of the Union Stock Yards and thirteen cents; bread, two cents; but- ternational affairs, depends the decichinery, etc., of which the farmer is a packing plant employes the wholesale ter, seven cents; coffee, cream and sug- sion of the American farmer in plan-

> Now is Decisive Time. (Continued on page 292).

The high cost of living at the present time is due to a stagnation in manufacturing goods and prepared foods; lack of economy in public expenditures; manipulation and extravagant profits of middlemen and increased transportation costs and not to any failure on the part of American farmers to produce economically and abundantly.

uct to the grower. The government the day on the farm, especially in so plays into the hands of those who fix minimum price for wheat does not de- far as the hired man's labor is con- the price to the consumer.

Success Against Odds.

six and a half bushels per year per per-timely heat and drought shortened the distributing plants struck for \$44 per son. Reduction in price to \$1.50 per oat crop and adversely affected the week and regular commissions. All bushel would mean a saving of \$4.94 corn crop. The long hours and stren- the other milk distributors at once deannually per person, or \$24.70 for a uous diligence of the farm operator clared a lockout against their drivers. family of five. This is nothing at all have, in spite of these adverse circum. After two or three days of sparring compared with the reduction in wheat stances, put the crop across; as he the employers agreed to meet the deacreage and correspondingly small harvests and markets it he wonders mands of the men and announced a crop next season which would result somewhat if he, with his disregard of one-cent per quart advance in the price from discouragement of the producer, the time clock and his recompense bas- of milk to the consuming public. The high cost of living is not due ed on a gambling game in which the Analysis of the arithmetic of the case to the storage of meats, vegetables, natural elements deal the yield and the shows that it took about four-tenths fruits, eggs and poultry in the season middlemen deal the price, has not been of that cent to pay the employes and

Popular as is the hue and cry against out or otherwise slackened in producshortage of foodstuffs, it is a palpable tion. He has increased his effort, ex- proportion to the price to the producer. fact that modern storage methods are tended his operations to the limit of Part of the reason for this is due to mind. Instead of doing our national the greatest food savers in the world, physical ability and financial credit, the short hours and high wages for saving food in time of plenty and sup- and striven to feed the world, believ- labor, part to the exorbitant profit of plying it in time of scarcity, and, more- ing the world would fairly and gladly the several middlemen between the over, maintaining a steadier level of recompense him. Instead, he finds in producer and the consumer, and a ing to better his own condition at the prices throughout all seasons for any many prominent places those who in considerable part to the extravagance expense of the other fellow given commodity. Indiscriminate re- their eagerness to find an answer of the consumer in methods of purstrictions on food storage will serve where there is none and to shun the chasing supplies. Without going into world, Just now we are quarreling only to wastefully glut the market in real facts of the situation, who point to an analysis of who gets it, compare over the division of what we have. If the harvest season of meats, vegeta- him with scorn and malevolence, say- the difference in price of choice beef we would stop quarreling and go to

Stagnation in Trade.

Every labor strike that shuts down any ing \$11.00. plant engaged in the preparation of The high cost of living is not due foods, or the making of clothing, that world matter. Applying a first aid rem- for 921/2 cents an hour. This strike tied the customary ten per cent tip, which, twice daily for the next year. Now is

Price Manipulation, Too. The high cost of living is due to Following a beautiful promise of a price manipulation and extravagant end. Theaters and places of amusesumer, very little the cost of living bountiful wheat harvest, a most de-profits of middlemen. Refer again to for the average family. Average wheat structive attack of scab and rust cut a Chicago situation. A small group of consumption in this country is about the wheat yield very materially. Un- milk wagon drivers at one of the milk en and handsomely tailored men. The

that six-tenths of each cent was added The farmer has not struck, walked to the profits of the distributors.

Food on the table costs out of all on the hoof at eighteen cents a pound work, we would soon increase producwith that of a moderate meal for five, The high cost of living is due to a at any one of the modest hotels, the

Farmer Got Seven Per Cent.

chy and revolution abroad should not towns within a radius of one hundred above price for the meal.



A Better Farming Tour

the road of accomplishment the visited were as follows:
"How he did it" of one successJackson County.—Ric ful man is worth more than whole volumes of advice.

It was the realization of this fundamental idea that prompted four live wire county agents to organize an In-



panoramic fair. The four county agents are to be congratulated upon the unquestionable success of the un-

The value of such an event cannot be overestimated; here the interested observer has the opportunity to see the best of the flocks and herds in the environment in which they were developed. They get at first hand live ideas, from the most progressive farmers in the several communities in regard to every branch of farm work. To the young farmer this is of especial value and the appearance of so many of the



alfalfa here, and one of soy beans or and tankage exclusively through same. clover there. It was a jolly, happy, pro-

Jackson County.—Rice Seed Farms—1,200 acres of seed crops; M. L. & John Noon—Duroc Jersey hogs and self-feeding experiments; H. F. Probert—Jersey herd and dairy barns; St. Austell Farms—Guernsey herd; Boardman Farms—Holstein herd; W. E. Livingston, Parma, Poland-China herd; J. A. Campbell & Son—Holstein herd; J. F. Thompson & Son—Hereford cattle and Percherons.

Lenawee County.—Adrian Community Market; F. S. Thayer, the tubercular test from the farmer viewpoint; Lenawee County Infirmary—soy beans as a hay crop and as silage; A. E. Illenden and E. R. Illenden—Cost of production under drouth conditions; L. W. Harwood—Holsteins; Witt Bros. ter-County Better Farming Tour. It shorthorns; Bidwell's Stock Farm—might almost be called a rapid fire Scotch and Scotch-topped Shorthorns.

Washtenaw County.—A. A. Wood & Sons—Rambouillet sheep; Jay Smith
—Shorthorns; Brookwater Farm—Duroc hogs and Jersey cattle; C. & O. Deakes—Jerseys; Bazley Stock Farm -Holsteins



younger men on this tour was evidence of their appreciation of the opportunity.

On Tuesday morning, August 12, the long line of automobiles left the court house at Jackson, and winding their way down through the busy streets and out over the country roads traversed the four counties in four consecutive.

Livingston County.—W. W. Knapp—Shorhorns; Wm. McQuillan—Shorthorn cattle, Shropshire sheep, O. I. C. hogs; J. G. Hayes—Holstein cattle, self-feeder pigs, common and Grimm affalfa; Charles Heeg—Holstein cattle; Smith & Parker—Jerseys; Silas Munsell—Holsteins; Robin Carr—Holsteins; Armstrong Bros.—Shropshire sheep and Poland-China hogs.

The self-feeder at the Noon Farm aftracted much interest. It is the in-

attracted much interest. It is the invention of Mr. Noon. The bin of the feeder is suspended from an iron rod through the top center. The grain coming down on either side of the bin is worked back and forth by the hungry porkers, the swing of the bin is regulated by a screw adjustment regulating at the same time the flow of feed. Mr. J. Hayes, of Livingston county, also exhibited a self-feeder; this was of utive days, stopping here and there to the home-made stationary type. Hr. inspect this flock, that herd, a field of Hayes says he is feeding corn flakes

The Community Market at Adrian gressive and greatly interested bunch was also of marked interest. It is a of men who improved every minute of cooperative market established by the the trip, and who were equally eager business men of Adrian and serves as to disseminate and acquire information a clearing house for odds and ends of in regard to all phases of better farm- the garden as well as for the major (Continued on next page).



County Agents. Osler, Washtenaw; Sheap, Jackson, and Dunks, Livingston,



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Hirth-Krause Co.

Tanners and Shoe Manufacturers Grand Rapids, Mich.



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Chief among reasons for the greater mileage yield of the Ajax Road King is that special feature - Ajax Shoulders of Strength. Shoulders of Strength are burly buttresses of rubber that brace and reinforce the tread. Their function is to add mileage—and they do, for they distribute wear evenly over the road. They put more rubber where it should be-more tread on the road.

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A Better Farming Tour

(Continued from preceding page).

daily supplies fresh from the farm. The of milk. surplus is sent to Detroit by motor

Soy beans and corn growing togethemergency hay crop.

and the federal work in detecting and quality. controlling the disease.

dred pounds, value of same amounting chosen life work.

products of the farm. There the farm- to \$2.828 per one hundred pounds, maker always finds a market for whatever ing a net profit of nearly ten cents per he has to sell, and there, too, the gro-hundred pounds. The four best cows cer and consumer can purchase their produced an average of 13.139 pounds

The several herds of Shorthorn, Jersey and Holstein cattle were given a great deal of attention, a detailed deer for silage, also soy beans seeded in scription of which would much more drills for hay and seed, were seen at than fill the space allotted to this the Lenawee county farm; these crops story. The general realization of the of beans showed a growth of from necessity for pure-bred sires in all three to four feet and gave an idea of herds, foretells as nothing else would, their wonderful possibilities as an an era of dairy prosperity and supremacy for Michigan. I. O. C. and Du-During the trip many interesting roc Jersey hogs were well in evidence talks were heard. At the Thayer Farm as were also the Rambouillet and Mr. Thayer and Dr. B. J. Killham gave Shropshire sheep. They were all of some interesting talks on tuberculosis the pure-bred type, and of remarkable

The time of the year for a Better-Mrs. Dora Stockman, member-elect Farming tour was perhaps not altoof the State Board of Agriculture, gave gether well chosen, as so many who a twenty-minute talk Tuesday noon. At would have liked to have attended the Beamer farm, Mr. E. A. Beamer were kept at home by the farm work picked out his best feeding steer and which could not be neglected. And it also his poorest and gave a good idea is quite probable that should another of the type of steer he likes to buy for tour be staged next year, the time will be later in the fall, probably in Octo-T. G. Hayes exhibited his Holstein ber or early November. Nevertheless herd which recently won the first place those who did attend this year were in the economy production contest con- well satisfied and went home with new ducted by M. A. C. Mr. Hayes' total ideals, broader visions and a fuller cost of production was \$2.730 per hun-knowledge of the possibilities in their



NEW WHEAT PRICES FOR LOWER er, as to the proper relation to the GRADES.

once declare the basis on which it will poration buying. purchase the various lower qualities of wheat was made recently by Julius H. Barnes, United States Wheat Director, following an all-day meeting at the offices of the corporation, 42 Broadway,

Barnes pointed out that the relative cents below that test. Milk delivered prices which the Grain Corporation f. o. b. Chicago will be \$2.75 per can. might fix would bear a relation to the guaranteed price at the terminal martimes over in time and labor saved. Quickest which in such markets as Minneapolis is ruling thirty to forty cents above " marl fresh from the bed to plaster the guarantee basis and that no at cracks in a stave silo. It is plastic tempt would be made by the Grain and adheres to any surface well, also Corporation to reflect any premium is convenient to apply. It can be apbasis above the actual guarantee price. plied as the filling progresses so it is He added that with the execution of not necessary to waste any time beseventeen thousand contracts between fore starting to fill silo. It can be apthe Grain Corporation and the country plied with a trowel or with the hands mills and dealers, any producer who as it does no harm to the hands, and felt that he was not being fairly treat- if any is spilled it will not harm the ed in grades and price could, by sub- stock. A pailful hung on the ladder of please mention the Michigan mitting a sample through the mails, the silo makes a short job of patching. receive a decision, binding on the buy-

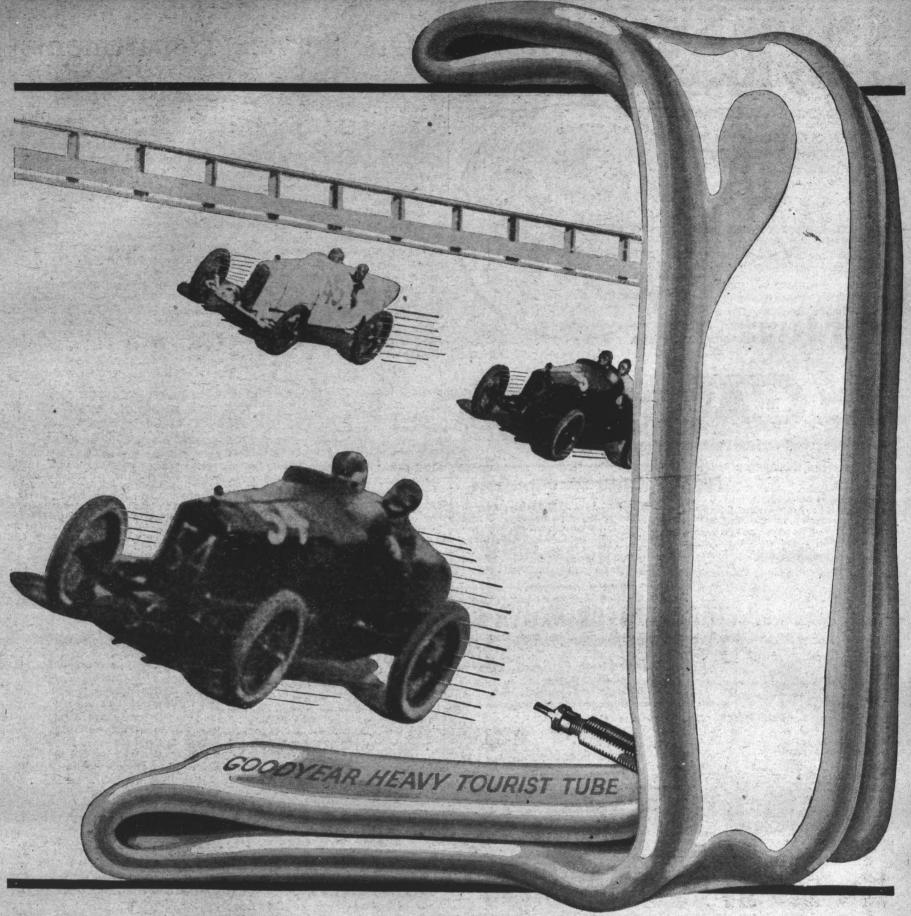
guarantee No. 1 price at the terminals, but not as to its relation with any pre-ANNOUNCEMENT that the United mium basis currently ruling in the ter-State Grain Corporation would at minals and outside of the Grain Cor-

CHICAGO MILK PRICES AN-NOUNCED.

After much deliberation and careful N. Y., during which Mr. Barnes dis- consideration of the present conditions cussed wheat grading and prices re- regarding necessities and food prodceived by farmers for wheat with var- ucts, the Marketing Company has deious members of congress, representa- cided to accept for the September milk tives of farmers' organizations and of their members, \$3.55 per cwt. for vice-presidents of the Grain Corpora- milk testing 3.5 per cent butterfat, delivered at country plants, with the us-In discussing the conference Mr. ual four cents a point above and four

MARL FOR PLASTERING SILO.

s FOR the past two years I have used



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A LMOST everyone knows, now, that Goodyear Cords are the first choice of the race driver.

For all important track records, from one mile to six hundred miles, have been established by cars shod with Goodyear Tires.

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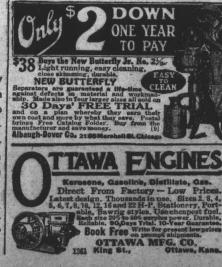
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Our Service Department

a legal fence is a question of fact to is made on bean ground, it will be betbe determined by the fence-viewers if ter not to plow. Prepare a good seed the case is put to them by demand for bed by surface cultivating. I believe a better fence, or by the jury if it the chances for getting a seeding will comes up in a suit for damages. The be better in the spring than in the statute declares: "All fences, four fall. This land can be prepared in the and a half feet high and in good re- spring by first discing it well, then pair, consisting of rails, timber, boards, keep it well dragged until the middle wire, or stone walls, or any combina- of May to the first of June, then seed. tion thereof, and all brooks, rivers, If lime is needed, apply it this fall or ponds, creeks, ditches and hedges, or early next spring. If sown in the other things which shall be considered spring, a light seeding of oats or barequivalent thereto, in the judgment of ley might be used, although the chancthe fence-viewers within whose jur- es are better if seeded alone. isdiction the same may be, shall be deemed Tegal and sufficient fences." The supreme court has said the fence should be so constructed as to turn the stock ordinarily kept on a farm: but it has never decided, in specific Brown Leghorn hens; since then I application just how small stock it have lost on the average of four a application just how small stock it have lost on the average of four a must turn. Those who have tried it week. They seem to be in sound know that small pigs will get through a pretty good fence if there is something they have found to be good on era. I have tried copperas, commercial the other side. We doubt the court poultry compound, have doctored for requiring a farmer to maintain a fence requiring a farmer to maintain a fence that will exclude very small pigs. But die. I am becoming discouraged, as some farmer may some day pay the care and attention seem to be of no cost of getting a decision on the point. use; they die anyway. Undoubtedly a legal fence should be such as to turn sheep that are not

A farmer has a right to store stone on any part of his farm; but he must JOHN R. ROOD.

RIGHT TO HOG-TIGHT FENCE.

Is my neighbor compelled to build his share of the fence hog-tight?
Cass Co. W. L. G.

pair, consisting of rails, boards, wire, financial loss. stone or other things which shall be considered equivalent thereto in the judgment of the fence viewers shall be deemed legal and sufficient fences. The statute seems to leave considerable to the judgment of the fence mals usually kept on farms and turned pigs? by fences in this country. There might be difficulty in compelling the neighbor to fence against little pigs. Tradition has it that no pig ever grew found in a fence; and our experience

WHEN TO SOW SWEET CLOVER.

I would like to ask if sweet clover after the beans, or simply dragged in good shape?

H. J. K. It will depend a good deal upon upon the condition of the soil. can be obtained easier than sweet wasting the grain mixture. W. M. K.

LEGAL FENCE-HOG TIGHT. clover, I would not think the sweet clover could be safely seeded later What constitutes a legal fence in than September 1, even on sandy loam Michigan? Does it have to turn hogs soil. If seeded as late as this, it will and sheep? Can a man put stone on the line to be kept up by the farmer oo. K. per acre with the sweet clover, as a adjoining? In the last analysis, what constitutes protection this winter. If this seeding

D. WOODMAN.

LEGHORN HENS DIE.

I had this spring 100 pure-bred

Lapeer Co.

The lameness and emaciation indicates tuberculosis in the flock and there is no cure. The sick birds should be killed and burned or buried very not store stone on his neighbor's land deep. Disinfect the house and plow up without the neighbor's consent. If the yards or range. Do not use such stored in such a manner as to make a flock for breeding purposes but plan the building of a fence at that point on getting a new start next year with impossible that might excuse failure strong vigorous birds. The liver most to build. We give no opinion on that, often shows signs of the disease, being covered with grayish-white nodules. When a flock shows this disease it pays to have the birds inspected by a veterinarian and he will be able to determine if any are healthy and suitable for food purposes. Do not try to continue with a flock that contains The statute declares that all fences many sick birds as it is quite hopeless four and a half-feet high, in good re- and only leads to disappointment and R. G. K.

FEEDING RYE TO HOGS.

Have just read your article regarding rye as a feed for hogs. I expect to have about 300 bushels, and would like able to the judgment of the fence have about 300 bushels, and would like viewers. The only expression on the to know how to feed to best advangater by our supreme court was in a tage. Whole, ground or cooked, alone case concerning a railway fence, in or in combination with other feeds? I expect over one hundred bushels of barley. Can I afford to buy corn as a part ration? Is rye suitable for young

Gratiot Co. Extensive feeding experiments conducted in Denmark indicate that rye meal ranks a little below corn meal in fast enough to outgrow a hole he had feeding value for hogs. As a general found in a fence, and our experience proposition it will pay to feed ground leads to the conclusion that small pigs rye along with other grain feeds. For will go through quite small holes .- R. young pigs a mixture of equal parts of rye and barley ground together and red at the rate of one hundred pounds with ten pounds of tankage, should produce good results. For fattening should be sown in the fall or spring to hogs a mixture of rye, barley and corn get best results. If sowed on bean meal, proportioned equal parts, should ground should the ground be plowed prove both economical and efficient. prove both economical and efficient. Such a grain mixture will produce a better quality of pork and the hogs will make more rapid gains than will whether this land is light or heavy and be the case if fed rye meal alone. I Of believe that you can afford to buy a course, H. J. K. understands that lime third corn meal as a part of the ration. is just as essential for sweet clover as Feed the ground grains in the form of it is for alfalfa. In fact, it has been a thick slop unless you have a selfmy observation that an alfalfa seeding feeder which prevents the hogs from



GOOD plumbing is not a luxury, meant just for a few. It's a real home necessity, and needed in the farm home more than almost anywhere else.

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There's feed for hogs and cattle in the stubble-temporary fence needed to protect the corn—lots of other work pressing. It's hot—the ground is hard—digging pòst holes doesn't make a hit.

Just the place to try out RED TOP posts. They give you a quick, strong fence that will stand up as long as you want it.

There's no longer any doubt about the superiority of RED TOP. In actual use it has become the standard. On thousands of farms no other post is used.

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A \$5.00 box makes \$40 to \$60 worth of medicated salt or "stock tonic"—saves you big money. A \$2.00 box medicates a barrel of salt or 900 lbs. of ground feed.

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Loans Not Granted

Your article on Lifting the Farmer's Financial Load was surely good. But how is a young man deserving to get a start with a few hundred dollars in personal property, going to buy a farm, when he has to give security on two dollars to get one, and those are the very ones who need a lift? I have just had a sorry experience with the land bank myself. Our local committee reported favorably, as did the appraiser, on my application, and then the land bank turned it down, saying they were controlled by our local committee and the appraiser. I am quite sure the local committee did all they could for me, so it rests between the appraiser was here he said I could have the money on the security I offered, but I am out my application fee and have no loan granted. What shall I do?

Monroe Co.

J. W. K.

As I outlined in my article, every

As I outlined in my article, every farmer making application for a loan through the Federal Farm Loan system, should secure financial aid to the extent of fifty per cent of land value hundreds of millions of municipal and and twenty per cent of building value. Why this young man did not receive this amount I cannot say. The very fact that his local loan committee recommended that his loan be granted, added to the fact that the federal appraiser advised him that he could secure the loan, must mean that some misunderstanding occurred between the appraiser and the land bank. It is the duty of the secretary treasurer of seed wheat for stinking smut the duty of the secretary-treasurer of the national farm loan association through which this loan was filed, to take the subject up immediately with the secretary of the land bank of the district, and ascertain just why a farmer is rejected when an appraiser, who is the legal representative of the land bank, advises that the money will be forthcoming.

There is a possibility that the appraiser made certain statements in his report to the land bank which caused the executive committee to report adversely upon this application.

Unless there is a misunderstanding between the appraiser and the land bank, this is a plain case of "passing the buck," a custom altogether too much in evidence between land banks and the applicants for loans. They advise the farmer whose application is turned down that the appraiser reported adversely, or that there was some technical reason, rather than having the ability to come right out and state their reason.

Federal appraisers as a class have been altogether too free in advising farmers that they could have the money they asked for. Many of them so advise farmers when they know that they have no intention in recommending any part of the loan being granted. The system can well do without a class of men who are so devoid of integrity as to make such free statements. Truthfulness and frankness is system as in any other system. A federal land appraiser should come to liness, and discuss the subject of the loan with perfect freedom. Aloofness. way-offness, etc., do not aid the farmer

Loan, in which a national banker representative from a Pennsylvania dis. the same day. trict advises readers of the wholesale loans should be granted many of them, and light grain. The grain should be Of \$300,000,000 in closed loans, more taken out at once, dried, and planted than \$100,000,000 had been rejected, immediately. which shows that the system is really

and senator at Washington and advise them to keep the Federal Farm Loan bonds free from taxation. Agriculture demands that this be done. There are public service bonds free from taxes. Why not also the farmer's?

E. W. GAGE.

TESTING SEED WHEAT FOR STINKING SMUT.

Allegan Co. G. H. B.

There are three common ways of applying formaldehyde for the control of stinking smut of wheat. In all these methods there is danger of injury to the germination of the wheat unless directions are followed closely, because formaldehyde airs slowly. Wheat so treated must not be covered too long and must be planted at once.

After securing clean grain of good variety, the farmer should fan the grain thoroughly to remove the light, shriveled grains and smut balls. The grain should then be treated by one of the following methods:

1. "Wet method." Dilute formaldehyde. Sprinkle the grain until thoroughly wet with solution of one pint of formaldehyde to forty gallons of water. Cover with blankets or sacks for two hours. Spread out thinly to dry and sow within twelve hours. Formaldehyde treatments are necessary for crop protection but they must be given carefully and with scrupulous attention to directions. Allow for the swollen condition of the grain.

"Dry Method, (Concentrated Formaldehyde): The convenience of this method is its chief advantage. Only those who will follow directions carefully should employ it since considerable loss resulted during the past season through improper handling.

Apply formaldehyde, full strength, with hand-sprayer while the grain is required in the Federal Farm Loan being shoveled over and over. Use at the rate of one pint to fifty bushels, half a pint to twenty-five bushels, onethe farmer-borrower with every friend- fifth pint to ten bushels, etc. A dose is a dose—this is as strong as formaldehyde can safely be used on wheat.

Cover the grain four hours-absoand the system to get acquainted as lutely no longer. Then spread to air in a warm, dry place for an hour or The Michigan Farmer recently re- two. It is unsafe to leave grain coverported a part of the address delivered ed or sacked over night. Formalde-(in the columns of the Congressional hyde cannot be thoroughly aired out Record), against the Federal Farm of grain. Therefore, plant at once. Treat no more grain than can be sown

3. "Soak and Skim Method." Exmanner in which loans are being grant- cessively smutty wheat is probably uned. There is not a solitary grain of safe to plant. Stinking smut can be truth in this statement, and the con- practically eliminated, however, by the gressman who made it knows it just as "Soak and Skim" method. Stir the well as I do. The land banks are, rath- grain slowly into a solution of one pint er, rejecting farmers by the wholesale, of formaldehyde to forty gallons of as the above case; farmers whose water. Then skim off the smut balls

M. A. C.

G. H. COONS.



Advise You to Install a Homer Pipeless Furnace

If you want to keep your house warmer this winter with less fuel, less bother, without dirt or dust, heed the advice of the 35,000 Homer users and install a

Homer Pipeless Furnace now.

Come and look over our shoulder as we open the day's mail and see for yourself the genuine enthusiasm, over Homer Heat, expressed in Homer users' own words. These letters may help to solve your own heating problem.

Harve Baxter up in Wind-sor, Wis., signs this one:

Have Baxter up in Windsor, Wis., signs this one:

"For twelve years have
tried to heat my house with
one of the best "old style pipe
furnaces" made, and last
winter was the first time the
house was evenly heated in all
rooms, and your furnace
did not use half as much
coal as the pipe furnace
costing me over three times
as much money to install."

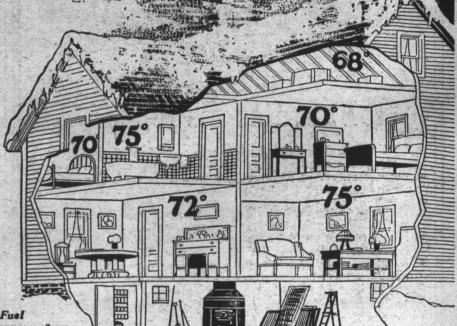
No More Messy Stoves

Here's an interesting letter from Edwin Stoughton in Kalamasoo, Mich.:—
"We have had the pleasure of using one of your furnaces for the last four years, and we bless the day you sold it to us.
"We heat five rooms to an 85 degree temperature, and we use on an average 4½ tons of gas coke per year.

Here's one from way down in New Jersey. S. J. Ridg-way of Tuckerton writes:—
"I was using three stoves and only heating four rooms. Since installing one of your furnaces I have heated the whole house of eleven rooms with less coal and had no trouble in keeping the temperature from seventy to eighty degrees without forcing the heater."

Pipe Furnaces Waste Fuel

Installing a pipe furnace means tearing up your floors and walls—thein stallation takes days, and labor is expensive—the heat must travel through pipes and much of it never reaches your rooms—your cellar is warmer than the upstairs rooms and you cannot store your vegetables or fruits there. And the average pipe furnace is wasteful of fuel and requires close attention for successful operation.



Why put up with the bother and inconveniences of dirty, messy stoves that require constant attention. When you install a Homer Pipeless Furnace you rid yourself forever of this disagreeable bother, dust, and dirt. You keep your rooms and walls, your furniture, curtains and drapes free from smoke, ashes and dirt—and at the same time you and your family enjoy plenty of uniform heat with less trouble and at less cost. ORIGINAL PATENTED PIPELESS FURNACE

It Heats—It Ventilates—It Satisfies— Less Price—Less Fuel—More Heat—No Pipes-No Flues-No Dirt-No Dust

Ten years ago, Mr. S. D. Strong, president of the Homer Furnace Company, offered the public the first patented pipeless furnace. Today there are more Homers in use than all other Pipeless Furnaces combined. No stronger confidence in a furnace can be expressed than by the universal adoption of the Homer and the Homer pipeless heating principle.

The Homer Furnace heats and ventilates through one combination register. Its design is based on sound laws of nature.

In the great outdoors warm air rises and cool air, being heavier, descends. And so it is with Homer heat.

Perfect Circulation

On leaving the center section of the register the warm air rises, spreads out and is deflected by the walls and ceilings. The steady flow of warm and pure air fills every corner and nook of the house and forces the return air back through the outer portion of the register to the furnace, where it is heated again. Our famous Thermo-Scal Inner Lining insures this circulation.

Saves 30% to 50% of Fuel

The Homer is the great saver of fuel, because it is designed and constructed to use the maximum amount of heat generated by the fire.

The Homer radiator, with its long travel, supplies more heat in the hot air chamber and sends less up the chimney. And because the Homer water pan furnishes the right amount of moisture you will not need so great a temperature to keep your house comfortable, for moist air heats more thoroughly than dry air.

These features mean that you will save with your Homer a third to a half the fuel other systems would require to maintain.

Lasts a Life-Time

THE HOMER is made by the original pipeless furnace men. From the ash pit to the combination register, it is the production of expert workmen and honest material. That is why we are able to guarantee the lasting qualities of the Homer.

The Homer is made to last a life-time. It will burn hard or soft coal, coke or wood or slack—in fact any fuel, and deliver the maximum amount of heat.

The Homer cast parts are made of

special Strokel iron. It was selected because of its excellent heat with-standing qualities and its ability to stand the severest breaking tests.

Homer Cleanliness

The Homer does away with useless pipes. It will remove the ever present objections to stoves in living rooms—the smeke pipes, the carrying of fuel and ashes through the house. No dirt, no dust, no pipes, no flues—cleanliness assured.

Homer Convenience

Because it is simple in design and operation, the Homer is convenient to manage. Any woman can run it easily and successfully. The draft controls are operated from the rooms above. There is nothing complicated about the Homer.

Cool and Roomy Cellar

The Homer is the first furnace that and keeps the cellar permanently cool.
It can be set up in your cold storage
cellar without danger of injuring
vegetables.

It is suitable to any cellar of six feet
depth or more. It can be operated in
a space six feet square.

Why the Homer Pipeless Furnace Leads

1 It heats and ventilates the whole house, keeping the rooms filled with pure, moist warm air.

2 It is the only furnace equipped with the Thermo-Seal Inner Lining, which insures a perfect circulation throughout the entire house whenever there is a fire n the Homer.

3 It burns any fuel satisfac-torily—hard or soft coal, coke, wood or slack.

It delivers more heat with less fuel.

It heats the entire house through one combination

It does not interfere with cold storage because it keeps basement cool.

7 It can be installed in one day's time—no tearing out he walls or disturbing the plaster. It costs but little more to install than an ordinary 8

All cast parts are made of guaranteed Strokel Iron.

10 It is the Original Patented Pipeless Furnace.

One Day to Install

The Homer is as easy to set up as an ordinary stove. The Homer Furnace Man cuts a square hole in your floor for the register, connects the register to the furnace, runs the smoke pipe to the chimney, and the Homer is ready to fire. There is no need of mussing up your house or disturbing your walls and plaster. The whole operation takes only a few hours.

The Homer Guarantee Protects You

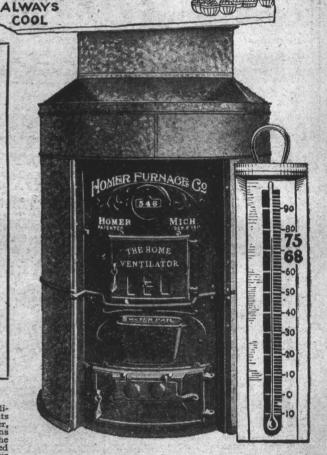
We guarantee that the Homer Furnace when properly installed will heat to a temperature of seventy (70) degrees any house, store, church or one-room school-house, during the heating season if installed in accordance with the guarantee.

The Homer Furnace Company further guarantees for a period of five years from date of installation to replace any casting used in connection with said furnace (except grate and shaker) if said casting is shown to be defective.

Open winter last year means a long, cold winter is coming. Now is the time for you to find out how Homer heat will solve your heating problem—how it will bring greater warmth and comfort into your home this winter with a big saving in fuel and time. The coupon will bring you information about right heating that will be of immense value to you whether you install a Homer Pipeless Furnace or not.

It Will Pay You to Send the Coupon Right Away

HOMER FURNACE COMPANY Dept. F-9 HOMER, MICHIGAN



3.30	we the MOTO
De	pt. F-9
Name	
Street	
City	
County and State _	
	CO., HOMER, MICH



Conveniences That Hold **Families Together**

THE humblest city homes are well-lighted and have gas for cooking. You have earned the right to these conveniences. You certainly ought to have them for your family.

Up-to-date homes like this one have the things that make life worth-while. The Colt Lighting and Cooking Plant stands in the corner of the cellar, cow-barn, or outhouse. Occupies no more room than a couple of apple barrels. Lights the house and barns. Does the cooking, too. No other lighting plant does that. Nothing to get out of order. No skill or experience required to operate—it's automatic. In over 250,000 country

Carbide Lighting OLT and Cooking Plant

is preferred to all other systems. Is by far the most efficient and economical. As far as light goes, none can compare with it. Write us for names and addresses of neighbors who have used them for years and can tell you all about them.

J. B. COLT COMPANY, 288 Fourth Ave., N. Y. City 15

WORLD'S STANDARD **DICTIONARY**



One of the best. Twelve hundred explanatory illustrations, with maps, flags of all nations, and chronological history of world in colors. Forty-seven thousand words defined—over 600 pag- | HAY es. Contains concise history of English language, abbreviations, rules for punctuation, business and letter-writing forms, table of weights and measures, statistics, parliamentary rules, etc. Also latest official census.

Bound in best morocco, and is as flexible as any \$5.00 bible. Title stamped in gold, burnished pages, patent thumb index.

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The Michigan Farmer, Detroit

When Writing to Advertisers, Please say 'I Saw Your Ad. in The Michigan Farmer".





Baled 43 TONS

Save \$100 or More Now!

State Grading and Packing Laws

F. D. H. Berrien Co.

Standard Apples.

(Act No. 75, Public Acts of 1917).

AN ACT to fix standards for apples, grown in this state when packed in closed packages, and to regulate the packing and sale of such apples.

357. Section 1. The people of the state of Michigan enact: The standard grades for apples grown in this state when packed in closed packages shall be as follows:

First, "Michigan Standard Fancy" shall consist of hand-picked, properly packed apples of one variety, which are well-grown specimens, normal in shape, uniform in size, of good color for the variety, and which are free from dirt, insect injury, fungus disease, bruises and other defects, except such as are necessarily caused in the operation of packing. "Uniform size" shall be construed to mean that apples contained in any one package shall not vary in size more than onehalf inch in diameter;

Second, "Michigan Standard A" shall consist of hand-picked, properly packed apples of one variety, which are well grown specimens, normal in shape, of not less than fifty per centum of good color for the variety, and which are practically free from dirt, insect injury, fungus disease, bruises and other defects, except such as are necessarily caused in the operation of packing.

consist of hand-picked, properly pack- of the abbreviation "min." ed apples of one variety, which are well grown, and practically free from insect injury and fungus disease: Provided, that the apples having healedover insect punctures, small scab or blotch infections, fruit spots, or other defects which, taken singly or collectively, do not materially deform or discolor the fruit or injure its keeping quality shall be admitted to this grade;

Fourth, "Michigan Unclassified" shall consist of apples which do not conform to the foregoing specifications of grade, or which though conforming, are not branded in accord-

358. Sec. 2. In the interpretation of this act as a tolerance of six per centum below the standard shall be allowed in the Standard Fancy grade, ten per centum in the Standard A grade, and fifteen per centum in the Standard B grade. Such tolerances shall apply in size, color and other grade specifications and shall be comspecimens which are judged to be bebe smaller than the minimum size, said regulations. marked on the package.

of the apples in the package.

of Michigan which is sold, offered or apples were packed, the true name of spected when such package is closed. the variety, the grade of the apples therein contained when packed or-repackage. If the true name of the

Will you please advise me regarding the legal requirements for packing, grading and shipping grapes, pears, apples and other farm products, both for local and distant markets? I have been informed that several changes have been made in the laws governing the size of packages and the marking of the contents of same. Any information you may furnish along these lines will be greatly appreciated.

Berrien Co.

Yariety is not known to the packer or the person by whose authority the apples are packed or branded, then such varieties shall be designated as "unknown." Every package of apples which is repacked shall also bear upon the same end of the package the name and address of the person by whose authority it is repacked, such name Berrien Co. and address to be preceded by the words "repacked by." The letters and figures used in marking or branding closed packages of apples under the provisions of this act shall be of a size not less than twenty-four point gothic. Provided, that closed packages containing apples which cannot be readily marked on one end, so as to bear conspicuously the information herein specified shall be marked or branded in such other conspicuous place as may be prescribed by the regulations promulgated hereunder.

> 361. Sec. 5. The marks and brands prescribed in this act may be accompanied by any additional marks or brands which are not inconsistent with or do not in any way obscure the marks and brands required by this act. Apples packed and branded in accordance with the United States apple grading law, approved August 3, 1912, shall be exempt from the provisions of this act.

362. Sec. 6. The minimum size of the fruit in all grades shall be determined by taking the transverse diameter of the smallest fruit in the package. Minimum size shall be stated in variations of one-quarter of an inch, as two inches, two and one-quarter inches, two and one-half inches, two and three-quarter inches, three inches, three and one-quarter inches, and so on, in accordance with facts. Mini; mum sizes may be designated by either figures or words and the word "min-Third, "Michigan Standard B" shall imum" may be designated by the use

> 363. Sec, 7. It shall be unlawful for any person to pack for sale, ship for sale, offer or consign for sale, or sell, in closed packages, any apples grown in the state which are not graded, packed and marked or branded in accordance with the provisions of this act and the regulations made hereunder, or closed packages of apples bearing any false statement, design, or device regarding such apples within the meaning of this act.

364. Sec. 8. Any person who violates any of the provisions of this act, or of the regulations promulgated hereunder, shall be deemed guilty of a misdemeanor and upon conviction thereof, shall be punished by a fine of not more than \$50 for the first offense and not more than \$100 for each subsequent offense: Provided, that no person shall be prosecuted under this act who can establish satisfactory evidence that no part of the packing or branding of the apples concerned was puted by counting or weighing the done by him or under his authority and that he had no knowledge that low the standard for the grade in any they were not packed and branded in respect, and those which are found to accordance with said provisions and

365. Sec. 9. The word "person" as 359. Sec. 3. In all of the grades specified in this act, the apples including the apples in the specified in the ed in the face or shown surface shall fairly represent the size and quality of the apples in the space of the apples in the apples in the space of the apples in the apple of the apples in the apple of commission or failure of any official or employe of any person, when such 360. Sec. 4. Every closed package official or employe is acting within the containing apples grown in the state scope of his employment or office, shall in every case, be deemed also the act, consigned for sale, packed for sale, or omission or failure of the person, as shipped for sale, shall bear upon the well as of the official or employe. The outside of one end in plain letters or words "closed package" shall mean a figures, or both, the name and address box, barrel, basket, or other package. of the person by whose authority the the contents of which cannot be in-

366. Sec. 10. It shall be the duty of packed, and the minimum size or the the Dairy and Food Commissioner to numerican count of the fruit in the diligently enforce the provisions of (Continued on page 282).

CAN YOU GROW GOOD CLOVER?

ALL over the country clover is the foundation of good farming. Land that will grow good clover will ordinarily grow good corn, good oats and good wheat. Of course, the growing of clover in itself makes the other crops produce more bountifully, but clover will not grow on poor land.

The first requisite for clover is a sweet soil. A sour soil can be made sweet by liberal use of lime, either in the form of ground limestone or burnt or hydrated lime.

If plant food is lacking in the soil it must be supplied before good clover or any other crop, will grow. Some farmers try to supply this plant food through the long-time process of adding small amounts of manure and turning under a sod now and then. This plan may maintain fertility but it will seldom add fertility. The small crops grown on the impoverished fields do not supply sufficient humus-making material to get the soil into a loose mellow condition, and since but little plant food is available from year to year, no progress toward higher fertility is made.

It is poor business to spend years in trying to "bring up" badly depleted soil by cropping and culture methods alone. There is nothing to build on. It is far cheaper in the end to buy good fertilizer at first and grow crops which will not only pay for the labor expended but will leave humus-making roots and stems in large enough quantity to improve the soil for next year's crop. After a year or two of this latter sort of treatment, most any soil, except the lightest sands or heaviest clays, will grow good clover.

J. W. HENCEROTH.

GETTING READY FOR WHEAT.



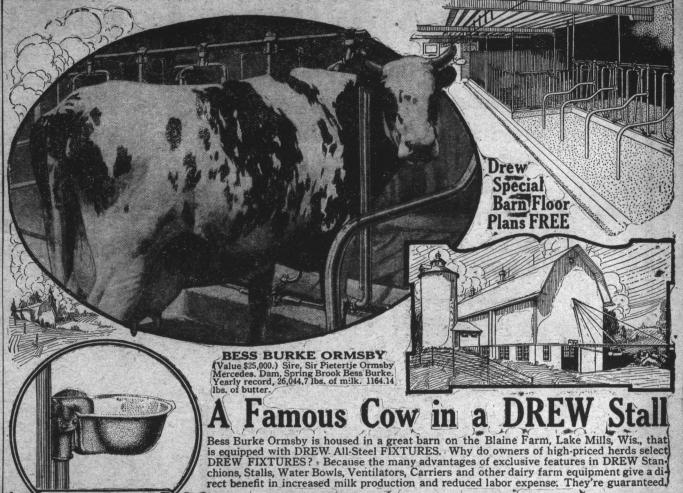
This Fall Many Michigan Fields will be Plowed with Tractors.

A HEAVY DROP OF PEACHES IN YORK STATE.

REAT concern is felt over the continued dropping of peaches in western New York. With picking time but a short time away and many of the peaches well toward full size, the fruit in many orchards shrivels and drops. This condition is not confined to isolated orchards, but is quite general over much of the territory.

Entomologists and experts have been called in for consultation by some of the big growers, but it is improbable that anything can be done to check it now. While it is not established, it is believed by many that the condition is an aftermath of the severe winter of 1917-1918, which left the trees in a weakened condition generally, and in addition killed tens of thousands outright.

With vitality lowered, those trees which did survive are now unable to carry a full crop through to full maturity with the result that there is a heavy drop now long after the drop period should be over. If it continues it will materially cut earlier estimates of the crop.-R.



If You are Milking Five Cows or More Drew Fixtures will Add to Your Profits

Have double locks, all-brass Every DREW product combines the utmost in valve. Cannot be dislodged labor-saving usefulness with great strength, by cattle. Will not overflow. long-lasting service and live stock comfort. tempered water.

Instantly removed. Always: For over twenty years DREW experts have give a full supply of evenly constantly studied the dairy farmer's needs and have met them completely. You must know all about DREW FIXTURES and DREW SERVICE if you want

to be fully informed on modern, improved dairying methods. * You are not obligated in the slightest by asking for our advice and suggestions on anything pertaining to stock housing. We are glad to serve you whether you purchase or not.

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Established 1899
Waterloo, Wisconsin EVERYTHING FOR THE DAIRY BARN

DREW EXPERTS are at your service whether you desire a single stanchion, complete plans for a new barn or the remodeling of your old structure. Our suggestions and Barn Floor Plans cost you nothing.

greatly to their service but the cost is no greathan for others.

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25% to 60% on a decause I build them myself. You an't beat the price of the man who nakes the goods, Friend.

Write and Get My Book, FREE uoting my direct-to-you-from ory price. Also get my of alamazoo Stoves, Ranges, l thing Machines, Indoor of the and Roofing. Pil que is, give you an unconventee and pay the freight for Catalog No. 9 The Old Stove Master"
lamazoo Stove Co., Mirs.
Kalamazoo, Mich.

Our Quality Knife



Made by the famous Valley Forge Cutlery Company. Two blades made of best razor steel. Ebony handle. Brass lined and well finished throughout. Guaranteed to give satisfaction. High-grade every way.

These knives were bought a pre-war prices, otherwise we could not make the attractive offers below. They are extra good value.

Sent prepaid for two yearly subscriptions to the Michigan Farmer at \$1.00 each, or for one subscription and 50 cents additional.

Cash for Your Spare Time

Put your spare time to pleasant and profitable use by cooperating with us in the securing of Michigan Farmer subscriptions.

A good way to get money for Thrift Stamps, Liberty Bonds, or to help in the high cost of living. From two to three dollars a week can be earned with little effort.

Details furnished upon request.

The Michigan Farmer,

Detroit, Mich.

THE WALL TO A POST OF A PARTY OF THE

For Small or Large Cars

"The Best Tires made" is the widespread comment of dealers and users.

Fisk Tires are uniformly dependable for mileage, appearance and general satisfaction under any conditions.

Fisk is a quality product in every last essential, with a distribution rapidly increasing solely on merit and reputation.

Measure Fisk miles against any advertised mileage.

FISK CORDS
FISK RED-TOPS
FISK BLACK NON-SKIDS
FISK INNER TUBES



IFISS TIRES

Next time-BUY FISK-At all Dealers

WORLD EVENTS IN PICTURES



Chas, Edison, son of Thos. Edison, treasurer of National Social Unit.



Miss Katherine M. Spruce who will identify in five or six minutes any one fingerprint desired among one million recorded in Washington.



Mrs. William Black, woman street corner orator, fights Bolsheviki.



Lieut. H. G. Peterson and Lieut. Paul H. Davis, the U. S. Army Aviators who were held by Mexican bandits for ransom.



"Fanchon," First Woman Aerial Mail Carrier being helped into her mail plane by Lieut. C. C. Nutt, U. S.Air Service at Sacramento, California.



Mrs. Jerome Bonaparte and her prize dog, "Eastney Bobs."



The Canine and Human Elements in New York Actors' Strike. The dog and the pretty actresses are picketing on Broadway.





Howard Chandler Christy, the famous artist weds pretty model.



Two hundred soldiers proposed marriage to this popular K. of C. flower girl.

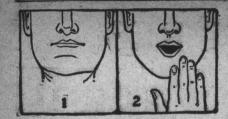


The surplus army food is being sold all over the United States. '

Copyright by Underwood & Underwood, New York



The tallest visitor ever at the White House is seven feet six inches in his stockings.



Try this experiment

1. Take a deep breath of cold air through the nose, the mouth being closed.

2. Open your mouth, hold your hand in front of it, and exhale. NOTE THE WARMTH OF THE AIR YOU EXHALE.

THIS is a simple demonstration of the air circulation system which Nature has installed in all human beings.

Cold air, inhaled through the nostrils, is carried over the heated surfaces of the nose and throat, and exhaled as warm air.

Nature's own circulation system applied to home heating in



"the furnace that breathes"



Note the register face of the Estate Single Register Warm Air Heating System. It is divided, you see, into three sections. The center section is the warm air discharge register, or mouth; the two outer sections are the intake registers, or nostrils, of this warm air heating system.

Air, drawn into the furnace (inhaled) through the two intake registers, is carried over the hot surfaces of the furnace, there thoroughly heated and moistened, then discharged (exhaled) through the warm air discharge reg-

No pipes are needed to carry the warm air from one room to another. As the warm air rises into the house, cooled air sinks downward until it is drawn back into the furnace through the intake registers.

Thus a constant and thorough circulation of moist warm air is created—a breathing as regular as the human respiratory organs—which heats every room of a house—upstairs and down—thoroughly and uniformly.

This simple, scientific heating system is not an experi-ment — it's an established

Many thousands have been installed during the past five years in old and new homes, stores, churches, etc., in every section of the country, and all are giving the greatest satisfaction. Send coupon for full information.

629 South Avenu	
Hamilton, Ohio	
Send FREE BOOK wit	h full information.
My house has	_rooms downstairs;
rooms upstairs	• 1
(Name)	



The Men Who Lead

By Jennie Buell

sometimes we jest set and think; and then, agin, we jest set!"

lead; the latter follow.

There is strong complaint at presthemselves; that farmers are not being led by farmers. Is the fault not farm leadership?

The man who "just farms," followfarm leadership.

Well.

ers, is a man who is in evidence in breeding for business purposes. any prosperous farm neighborhood. There was, a generation ago, anoththe most part material in quality. If through seedlings, grafts, and cross-we had no other type of farmer than fertilization. As a result "Hathaway's this, agriculture would blaze few new Yellow Dent" corn would of itself entrails, would produce few new varieties of grains, improved strains of live stock and multiplied kinds of choice fruits, but it would suffer sorely nevertheless.

The Leader Who Experiments.

Leadership as we think of it calls for experimenting and initiative in farming lines, but when these gifts occur in an unassuming man, even his neighbors often fail to recognize him in the sense of a leader. A man in my county, Charles L. Foster, who last winter fell a victim of the present influenza epidemic, illustrates well this type of farm leadership—the kind that steadfastly, and, with studious devotion applies itself to problems of soil, feeding and breeding, without seeking any official recognition of himself.

When the news of this man's passing was announced by the papers, telephones clicked in distant parts of When the west winds breath and blow the county and strained voices asked, Sad and low, "That isn't our Mr. Foster, is it?" This sense of loss over the county was not due alone to the characteristic That the snows will soon be falling kindness of this man, although one of Summer flies beyond recalling his immediate neighbors said of him, "We have grown to depend upon him When the garnered grain fields lie as a leader in everything we sought to achieve as a neighborhood and he never failed us." But he was also so devoted to farming that he leaves those who did not neighbor with him the the note of flute or 'cello farther along the way of scientific agriculture. He was a city lad who came riculture. He was a city lad who came to the country, deliberately choosing farming as a life work, irrespective of money rewards; he applied his mind, trained in chemistry, biology and physics, to his fields and animals. He was an enthusiast in applying new When new fealties are plighted Blessings crown the love united Fall is here.

HERE is a story of an old Maine knowledge to his wornout soils, his title him to be ranked among agriculfisherman who, when asked by dairy animals and his poultry flock, ture's chieftains. In addition to that a resorter what people of his Disregarding the balance that was of strain of corn, which was perhaps trade do in winter time, replied, "Wal, ten on the wrong side of his financial Michigan's standard when scientific record, he followed the lure of experi- selection of seed corn came into vogue mentation and of helping others in his Mr. Hathaway had to his credit sever-Farmers, quite like fishermen, natur- favorite lines. He well knew that if al strawberries, grapes and other ally fall into similar classes; that is, others were given cows, bred to pro- fruits which he had originated and some who both farm and think, and duce more butter-fat, and hens, bred, tested out by rigorous culling processothers who merely farm. The first fed and culled to laying standards, they es. His nurseries, hot-beds and orcould profit from them. His delight chards were feeders for a wide range was to produce these types of animals, of territory and many a home ground ent that agricultural conditions are discover the best feeding ration for and school yard are now graced by not being molded by country people them and share his findings with his mature specimens that came from that neighbors. A near friend said of him, rare old farm. Could certain square "This sometimes opened the door to yards of that farm speak a language than expect more.

ing the practices of his grandfather, is Foster as a "leader," and yet, now fast dropping out of the race and may that we talk of him and look at the promised finer or greater yields. not be considered in any discussion of large vacant place he has left, some-

He is what one farm agent calls a er Michigan man who, even more re-"real farmer." So he is. He is the markably exemplified this same unobbone and sinew of food production. He trusive sort of what for a better name, cultivates its clean fields; he erects we term farm leadership. I refer to its substantial fences and he builds its Benjamin Hathaway, of Cass county. big red barn. He grows its bumper Here was a man who sought no officrops, sleek herds, huge vegetables cial positions but whose work left an and prize-winning fruits. This man indelible impression on progressive aglooks after the interests of his farm riculture. His work was with plants first of all and grants few departures and fruits. Before the days of Burfrom its routine. The "leadership" of bank and others of brilliant record, such a man is mostly of the silent, Mr. Hathaway patiently explored the though substantial, sort, and it is for uncharted fields of plant improvement

partly our own? Have we a clear imposition, but he would say he would which we mundane humans underenough conception of what constitutes rather receive a little less than his due stood, they might tell a marvelous story of their former owner's long and I doubt if many of us viewed Mr. patient effort to produce a flower, or vegetable, grain, nut or fruit which A year ago I walked reverently-I how we realize that he was, in his say it advisedly—through the fine or-The Leader who Farms Surpassingly quiet, unseeking way, a true leader in chard of splendid towering chestnut the fundamentals of good farming— trees which this plant lover set years The first type, then, of farm lead-built-up soils, balanced feeding and ago. I went out into the remnants of what was once a wonder-gardenwent to taste again the anise which grows in the corner where it grew in my childhood-walked along the old paths to smell again the box which bordered the beds, and recalled the rare specimens of imported flowers and shrubs which this man collected

> Others besides these men have done a similar work for their localities and every one of them has been in his field a farm leader. These instances but point to the type. Too often they are unrecognized as such; sometimes underrated because they do not measure up to the common standard of what is called "success." Advancing agriculture owes much to such men and there are more of them, of greater or less degree, than we usually suspect. As a people we need eyes to

> from distant connoisseurs and brought

to our inland country neighborhood.

The Leader Who Organizes.

We have thus far considered those who are content-more than contentto do their work on their own premises. There remains another group of farm leaders who, while tilling their fields and harvesting their crops, do so with a mind on their social, economic and citizenship relations to their neighbors, state and nation. To this group belongs many a farmer who holds political office of one kind or another as a public trust. To this group, also, belong those who see the value of united effort among their class.

Men of this type have considered farming in a large sense. They have seen the need of influence, of many focussed upon legislators. They have realized the utter futility of an individual struggle against big business combinations. Moreover, they have felt the pull of service for public betterment. Governor C. G. Luce, J. T. Cobb, C. W. Mickley and J. Webster Childs were others of that sturdy, fearless cast of characters, of those times, who defied precedent and championed the organizing of farm forces. These pioneer men have been succeeded by others of like conviction and organizing trend. We have many examples of each type in our midst today. Too often our eyes are holden and we do not perceive their possibilities of usefulness as leaders in their special lines of activities.

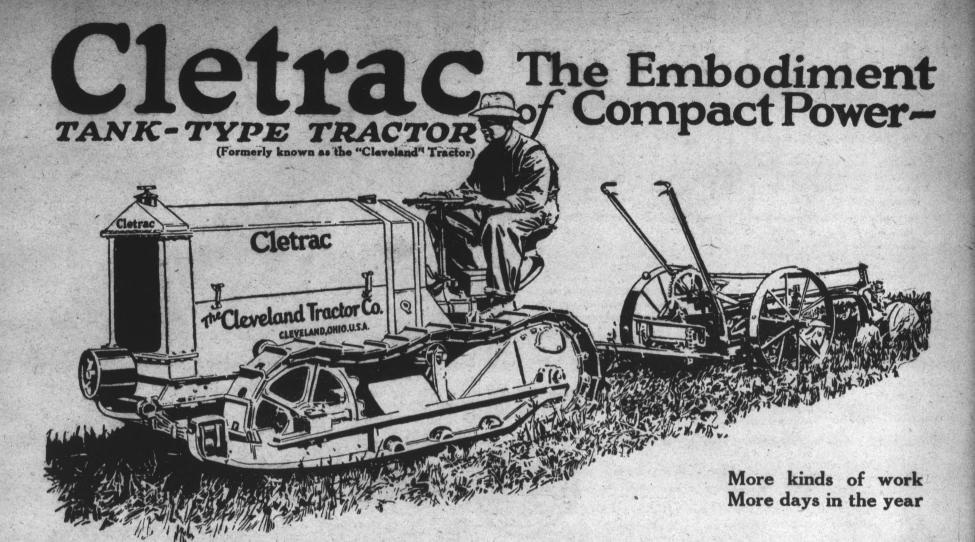


FALL IS HERE.

BY MRS. L. M. THORNTON.

And across the rolling plain Comes refrain Fall is here.

Stubble brown,



THE Cletrac Tank-Type Tractor is only 96 inches long, 52 inches high and 50 inches wide. But in spite of its small size it will do the work of six horses or mules—and has a speed of from forty to fifty per cent greater than the average tractor.

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Because of its distinctive tracklaying construction the Cletrac is specially adapted to seed bed work. Eight hundred square inches of traction surface enable it to go over soft plowed ground or moist or sandy surfaces without sinking in and without packing down the soil—two invaluable assets not found in the ordinary tractor—two assets essential in the proper preparation of the seed bed.

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Miss Trude's Bad Afternoon

By J. M. Merrill

sharp ejaculation as an unusual- and now-what was that? followed by a heavy crash of thunder. ears of Miss Trude. Joe Bixley and his chum Alix Donald

one of our hard wind storms."

as another crash of thunder fell.

last one mowed down a bit of woods settlement school. for Tom Studeford, killed a few of his frighten you."

"And what are you doing, Alix?" snickered Joe.

tion, yet at heart they were considered away. as good as any lads in the settlement, and as this is a true story we must speak of them as they were.

When there came a lull in the storm Miss Trude dismissed the school. Some of her pupils had a mile to go through the woods, and the slender girl from Maine was too solicitous for the welfare of her flock to keep them long when danger might result.

School had been dismissed twenty minutes. It was now almost four in the afternoon and the teacher still lingered. She thought herself alone. She went to the open door, glancing down the forest road, dreading to set out on her homeward way which led through a deep swamp to the house of Alix Donald's parents, the pater being the director at whose place the teacher was temporarily domiciled.

"I wish Alix had waited for me," she murmured, noting a sudden darkening a nameless horror. of the western sky. Another storm was the heavens, followed by a distant rumble of thunder.

curely locking the door.

A sudden flash and stunning roar she gathered her skirts about her, and made a swift dart down the road. She was soon in the shadows of the wood. There was no wind. The dead calm was actually oppressive. Miss Trude had read about the dreadful cyclones that sometimes visited the western country, and would have ran all the way had she imagined anything like a tornado was soon to occur.

Half a mile down the road was Rudiman's creek. Several late rains had filled its banks to overflowing, which added to the rain of today might cause a flood. What if the bridge had been swept away?

The little school teacher scudded along, white-faced and a trifle uncertain of her position. Why had the boys all left her to hurry home. She felt it a shame to be thus deserted. Alix was such a tease. He seemed to delight in seeing his teacher wince when he told stories of the awful calamities

ISS TRUDE started, uttering a that had happened to the early settlers

ly bright flash of lightning was A roaring sound far off filled the

The sound was like that of a moving train of cars, such a sound as the lit-"Excuse me, boys" pleaded the tle teacher had not heard since leavschoolma'am, " I am not used to such ing Buffalo on her way west, which heavy thunder." She had come but was the "jumping off place" so far as the month previous to this backwoods railway traffic was concerned. Miss settlement of Michigan from the far Trude had rather enjoyed the long ten away state of Maine, a state where days' trip by stage coach through the 'twas said the farmers had to file the southern edge of Canada west to Denoses of their sheep that they might troit, thence by ox and horse team pick the grass from between the rocks. through Michigan to the Muskegon, on "Oh, this is a mere nothing," advis- whose banks squatted the little lumed Joe with a grin. "Wait till you see ber hamlet of Sandy Bar. Here an aunt resided, and here the girl had "Oh, dear!" gasped the little teacher expected to make an indefinite stay. Having been engaged to teach, she "Never you mind Joe," put in Alix felt it incumbent upon her to do the at this moment. "We don't have bad very best that was in her for the upstorms very often, Miss Trude. The bringing of the boys and girls of the

Miss Trude stood still in her tracks stock—destroying his barn—but it and listened. The roar of that train didn't last long. Joe is only trying to grew more pronounced each moment. Mercy! she could not for the life of her understand how a train of cars should be plowing the western woods when Two bad boys you'll say. Perhaps her good sense told her the nearest they did enjoy their teacher's trepida-locomotive was hundreds of miles

Ah, she understood now.

She had arrived at the brow of a considerable hill, denuded in part of its timber growth by the hand of the lumberman. Off to the southwest grew a clump of dead pines. These were writhing as though in agony; the rough bark and limbs were dashed through the air, followed immediately by the fall of timber. Down crashed those dead pines like wheat before the reaper's scythe. And then she knew the meaning of that roaring sound—a cyclone!

A funnel-shaped cloud, black as ink, rolled and gyrated across the woods, tearing a complete pathway through, leaving nothing standing in its wake. Dust and twigs were whirled in clouds about the slender girl standing on the hill. She clung to her hat, darting to the roots of a big pine stump. Here she clung to the ground, thrilled with

A minute later the sun shone forth brewing, since forked lightning jagged from behind that black cloud. The wind dropped away in the distance and all nature smiled once more o'er the Hastily donning hat and coat the girl landscape. Such a scene. Like one teacher stepped into the open air, se- of old, we might exclaim, it beggars description.

The foot of the hill was piled high startled her. Hesitating but a moment with fallen timber. Where once was (Continued on page 280).



It takes Brains to recognize a Good Tractor

WHEN you build a tractor to be sold on the basis of the service it gives, it has got to be sold to a man of brains.

Appearances speak for themselves.

Anybody can tell what a Tractor looks like—whether it has three wheels or four, whether the engine is upright or horizontal, whether its gears are enclosed or at the mercy of sand or gravel.

But it takes brains to get at the facts to look into tractors instead of merely at them.

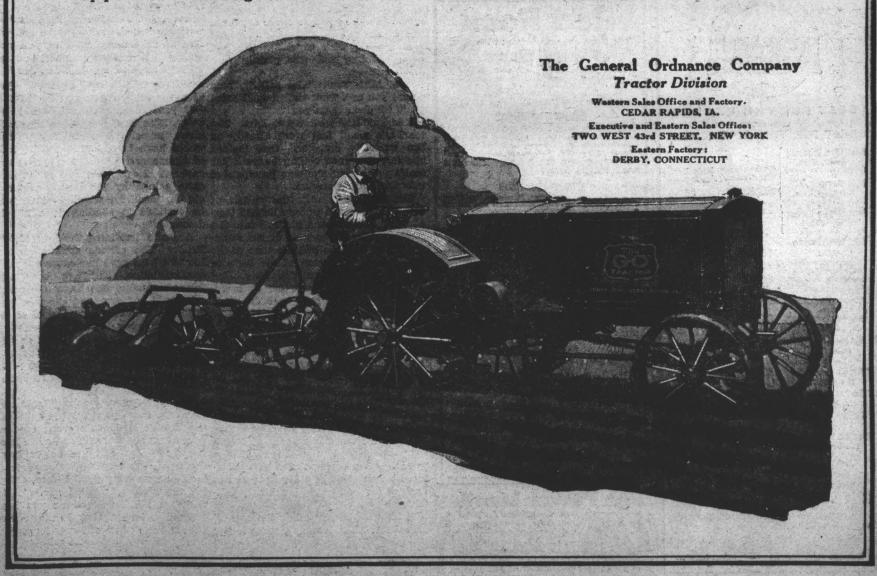
More and more, the farmers of this country are looking for the facts which determine the serviceability, economy and long life of a tractor.

And they are finding them in the GO type of tractor—the four-wheel, four-cylinder type, towards which the whole industry is tending. There are no tracks or sprockets in the GO Tractor to become filled with sand or to use up power in overcoming friction.

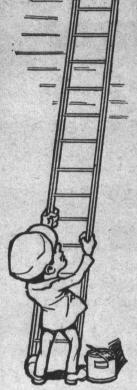
They are finding them in the GO driving mechanism—an exclusive feature which cannot be duplicated or imitated. With the GO friction drive, there is no possibility of stripping gears, because they are always in mesh. The speed of the tractor can be changed while in motion. It can be adjusted to any kind of work either in the field or at the belt—there are six speeds forward and six reverse.

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The man of brains, who is looking for more facts—for facts about the company behind the GO Tractor, its resources, its guarantee, and its idea of tractor service—can get them without obligation by addressing any of the offices below.



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High Power Mantles

Miss Trude's Bad Afternoon

(Continued from page 278).

green hemlock. Slowly Miss Trude ful to you-" trunks which littered the way.

timber which seemed to defy further us, Miss Trude?" progress. The air was much cooler and come back seeking her?

The girl sat down on a fallen tree, I was too frightened to help myself." and cupping her chin in one hand, sat

ruin all about her.

It was yet nearly a mile to the home of the director. Along an ordinary road this would not have seemed far, but the obstacles now in the way daunted the girl from way down east. With a deep sigh she rose and began ing. picking her way to the left, keeping along the edge of the devastated strip, hoping she might come to a point for crossing.

By miraculous chance she found a narrow lane seeming untouched, down which Miss Trude made her way with the fleetness of a doe. She feared night might come on with her still in the woods. A light broke in the west; she was approaching an opening. Ah, there was the glitter of water in the distance -Rudiman's creek on a rampage.

The girl pushed on, soon discovering woods near the bridge intact. A near adventures of the day. er approach, however, showed her one

A single timber remained undestroyher way. As she stepped foot upon the it Miss Trude?" quaking timber her ears were assailed by a shout from beyond the swollen rate," she returned. creek. On the opposite shore appeared one of her pupils, Alix Donald, whose face glowed with exertion. He had that storm coming, knowing you were been running, and was plainly very all alone back there, I tell you it set

"Oh, Miss Trude," he called, "stop Wait till I come to you!"

into the boiling stream.

ed aside his coat and plunged into the damages."

which came uncoiled in his grasp. This them both—perhaps to herself as well. hurt both the boy and his teacher, but hesitate an instant. The two sat on teacher designated as her one bad afthe bank drying off a little, waiting to ternoon. recover their full senses before setting "Do you know, teacher," said Alix the roa

Trude. After drying it the best possi-don't you think so?" ed for a pin.

said the teacher, forcing a smile to her that not one of us will ever forget."

damp features. "Never mind. Wait A well defined wagon road now pre- till we get home. I feel all right now, sented a wall of fallen dead pines and Alix, quite able to walk, and so thank-

made her way down the incline, tread- Lucky I turned back as I did," said ing daintily over limbs and rifted tree the boy. "It wasn't fair to frighten you with our yarns, then run away as She halted before a mass of fallen Joe and I did. Can you ever forgive

"I'll forgive you, at least," she asthan before the storm. How could she sured him, the smile accompanying the get around that mass of fallen trees to words very soothing to the boy's heart. the road beyond? She wondered how He had not yet reached home when far it was. Night was not very far he saw the approach of the wind storm off. Where were Alix and Joe? Had and turned back to look after his teachthey been exposed to the fury of the er, knowing full well how frightened cyclone? Would they miss her if alive she was sure to be. "You saved my life, Alix. I can't swim a stroke, and

"Thanks, Miss Trude," blushingly cross-limbed gazing at the magnificent spoke the boy. The two were standing now. Taking her arm he led the way to the road, which was not obstructed by trees on this side of the creek.

The two had not proceeded far when a light wagon appeared drawn by a big farm horse, with Joe Bixley driv-

"Ah, here you are and wet through!" exclaimed Joe, wheeling his wagon about, springing to the ground. "I was afraid all the way that I'd find you both drowned. It was Alix suggested coming back for you, Miss True."

Joe assisted the teacher to a seat in the wagon.

"You get in with Miss Trude and drive, Alix, I'll ride behind."

Alix folded his dry coat about the shoulders of the teacher, then followed the instructions of his chum. Two rather crestfallen boys they were as to her joy that the storm had left the they rode slowly homeward after the

"It'll take a week for the men to end of the bridge gone, the water clear out the road," said Alix. "I'd no growling like a caged lion as it swept idea we were going to have such a in swollen flood along between banks. Wind. I talked simply to scare you this afternoon when the thunder cracked, to which the schoolma'am made ed so loud. It wasn't nice of me was

"I suppose you enjoyed it at any

"At first we did," admitted Alix, "but after we left the schoolhouse and saw us boys to thinking, didn't it, Joe?"

"That's what it did," agreed the boy. where you are. That timber isn't safe! "I never felt so cheap in my life. If -if you'd been drowned, or blown The boy had spoken too late. The away, Miss Trude, I'd have never forteacher's small feet were already on given myself. I think my dreams the unsteady stringer. One instant would have been haunted till I'd die she felt the wood rolling beneath her of shame and grief. It's bad enough footing, the next she was precipitated anyhow. I can see that your gown is quite ruined by the muddy water of Simultaneously with the splash of old Rudiman, for which I think you'd her body upon the water Alix had toss- be justified in sending in a bill for

stream. The boy was an expert swim- A smile irridiated the face of Miss mer, yet withal he had the time of his Trude. The serious countenances of life making a success of his dash to her two boys gave her cause for much save Miss Trude from drowning. Had congratulation. Although both were Rudiman's creek been wider by a sin-forever teasing, she knew they were gle rod both would have been drowned. pure gold at heart, and she was quite As it was Alix dragged her free of ready to believe the incidents of this the water by the hair of her head, day would prove of lasting benefit to

Miss Trude did not lose a day from it seemed the only way, and he did not her duties because of what the young

uay, s weeks later, that an-The strong hands of the boy wrung venture at Rudiman's creek cost me the water from the masses of raven several nights loss of sleep, and I know hair that graced the head of Miss it's made Joe and me better boys;

ble, he twisted it in a big knot at the "You were very good before, only a back of her head, then laughingly call- bit thoughtless," smiled she. "I am sure we all, I as well as you boys, "I imagine they're all in the creek," learned a lesson that bad afternoon



"By the Way"

THE SURE TEST.

Johnny—"Huh! I bet you didn't have a good time at your birthday party yesterday."

Willie-"I bet I did."

Johnny-"Then why ain't you sick today?"

WOULDN'T TAKE A CHANCE.

"Why don't you get out and hustle? Hard work never killed anybody," remarked the philosophical gentleman to whom Rastus applied for charity.

"You're mistaken dar, boss," replied Rastus; "I'se lost fouh wives in dat way."

HEATED.

Customer (angrily)—"Waiter, there is a dead fly in my soup! This is the second time such a thing has happened."

Waiter (sympathetically)—"Ah, the poor things! It's boiling 'em that kills 'em!"

A COOL ONE.

Jenkins—"How is it that you never suffer from the cold?"

Winderby—"Oh, I'm always wrapped up in my work!"

Visitor—"How long has this man worked for you?"

Farmer-"About four hours."

Visitor—"I thought he had been here longer than that."

Farmer—"Yes, he has been here for four weeks."

ADVICE TO A SOLDIER.

"Remember, my son," said his mother as she bade him good-bye, "when you get to camp try to be punctual in the mornings, so as not to keep breakfast waiting."

JOHNNY ON THE SPOT.

A youngster went into a merchant's busy office. Not getting immediate attention he approached the boss and said: "Excuse me, sir, but I want a job and I'm in a hurry."

"You do, eh?" said the merchant.
"And why are you in such a hurry?"

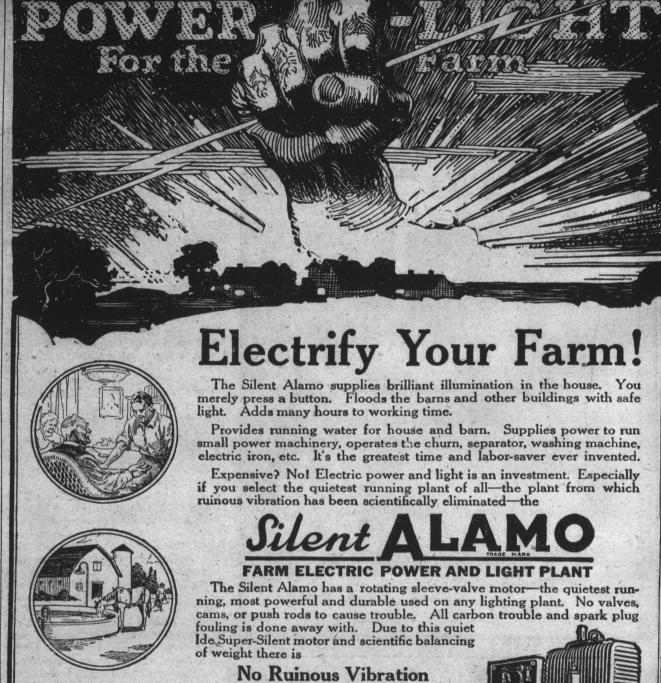
"Got to hurry," replied the youngster. "Left school yesterday and I haven't struck anything yet. I can't waste time and if you've got nothing I'll be moving on. The only place I can stop long is where they can pay me for it."

"When can you come?" asked the surprised boss.

"Don't have to come," was the quick reply. "I'm here now, and would have been at work before this if you'd just said so."

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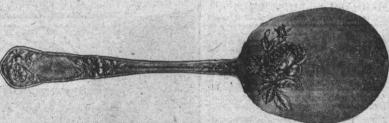
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Wanted Man and Wife to work farm bitious man and not afraid to work and run the farm in capable manner. Electric lights, hot and cold water, bath and heat furnished. Good wages to the right man. Give all particulars with reference. Michigan Farmer, Box S 823.

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BUY FENCE POSTS direct from for-ered your station. M. M. care of Michigan Farmer.

lemish Giant Rabbits, dark steel black. Grays menths old, \$3.00 & \$2.00 each. Pedigreed stock DAVID RAY, 709 Norris St., Ypsilanti, Mich

Please mention The Michigan Farmer when writing to advertisers.

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AT FACTORY PRICES

Protect your barns from spring rains and hot summer sun with Arlington Battleship Gray-the paint the Government uses on its fighting ships and warehouses. This paint covers well and is easily applied.

applied.

You can buy this tested quality-grade paint and our special red barn paint at factory prices now. Freight prepaid. There is an Arlington paint for every use—silos, interior and exterior house paints, implement enamels and MORE-LYTE, the interior sanitary white enamel for dairies. Arlington has stood for quality paint for 17 years. All paint sold on money-back guarantee. Try some and return what's left if not exactly as represented. Reference any Canton bank. Write at once for color card, prices and directions for ordering. Get a quality, guaranteed paint at factory prices

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Easily Sawed By One Man.
Easy to move from cut to cut. Make big profits cutting wood. Cheap and easy to operate.

OTTAWA OG SAW

Does 10 men's work at one-tenth the cost Makes work easy. Engine can also be used for



Trained American Fox Hounds Rabbit and Skunk dogs all ages, Send stamp.
W. E. LECKY, Holmesville, Obio.

State Grading and Packing Laws

(Continued from page 272).

agents are authorized to enter upon of Commerce. Prosecutions for ofthe premises of any person within this fenses under this act may be begun state for the purpose of inspecting upon complaint of local sealers of packages of apples and securing evi- weights and measures or other officer dence of violation of this act, and the of the state appointed to enforce the said Dairy and Food Commissioner is laws of the said state, relating to hereby authorized and empowered to weights and measures: Provided, howmake, promulgate and enforce such ever, that nothing in this act shall apregulations as may be necessary for ply to barrels used in packing or shipinterpreting the grade specifications ping commodities sold exclusively by prescribed in this act, and for other- weight or numerical count. wise enforcing its provisions: Pro- 371. Sec. 4. This act shall be in vided, however, that any grades or force and effect from and after the classes of apples packed in closed first day of September, 1917. packages, or any requirements for 372. Sec. 5. An act entitled "An making closed packages containing ap- act to regulate the size of dry or packples, mandatory as applying to intering barrels for fruits, roots and vegestate commerce, which may hereafter tables," being section 6,254 of the be established by the authority of the Compiled Laws of 1915, be and the congress of the United States, shall same is hereby repealed. forthwith, as far as applicable, be established and promulgated by the Dairy and Food Commissioner as of AN ACT to prevent fraud and decepficial grades, classes and marks for tion in the sale of Michigan grown apples packed in closed packages in the state of Michigan.

367. Sec. 11. All acts and parts of acts in conflict with this act are hereby repealed.

Standard Barrel.

(Act No. 88, Public Acts of 1917). commodities.

26 inches; circumference of bulge, 64 fruits and vegetables. inches, outside measurement; and the 207. Sec. 2. Every person who, by thickness of staves not greater than himself or by his agent or employe, barrel for cranberries shall be of the indelible manner, as follows: bulge, 581/2 inches, outside measure- premises of the packer or dealer. ments; and the thickness of staves not Second. The name and address of

state, or to ship from this state, to any in height. other state, territory, or the District 208. Sec. 3. No person shall sell or subdivisions thereof known as the required by this act. third, half, and three-quarter barrel, 209. Sec. 4. No person shall sell or to be shipped.

lished by rules and regulations made cepted. by the director of the bureau of stan-

this act and his officers, employes and dards and approved by the Secretary

Fruits and Vegetables. (Act. No. 207, Public Acts, 1913).

fresh fruits and vegetables, and to provide penalties for violations of this act.

206. Section 1. The people of the state of Michigan enact, In this act, unless the contents otherwise requires, the term "closed package" shall be AN ACT to fix the standard barrel for construed to mean a barrel, box, basfruits, vegetables, and other dry ket, carrier or crate, of which all the contents cannot readily be seen or in-368. Section 1. The people of the spected when such package is prestate of Michigan enact: The stan-pared for market. Fresh fruits or dard barrel for fruits, vegetables, and vegetables in baskets or boxes, packed other dry commodities other than in closed or open crates, and packages cranberries shall be of the following covered with burlap, tarlatan or slat dimensions when measured without covers shall come within the meaning distention of its parts: Length of of the term "closed package." None staves, 281/2 inches; diameter of heads, of the provisions of this act shall ap-17% inches; distance between heads, ply to other than Michigan grown

four-tenths of an inch: Provided, that packs or repacks fresh fruits or vegeany barrel of a different form having tables in closed packages intended for a capacity of 7,056 cubic inches shall sale in the open market, shall cause be a standard barrel. The standard the same to be marked in a plain and

following dimensions when measured First. With his full name and ad-without distention of its parts: Length dress, including the name of the state of staves, 261/2c inches; diameter of where such fresh fruits and vegetables heads 161/4 inches; distance between are packed, before such fresh fruits heads, 251/4 inches; circumference of or vegetables are removed from the

greater than four-tenths of an inch. such packer or dealer shall be printed 369. Sec. 2. It shall be unlawful to or stamped on said closed packages in sell, offer, or expose for sale in this letters not less than one-quarter inch

of Columbia or to a foreign country, a or offer, expose or have in his possesbarrel containing fruits or vegetables sion for sale in the open market, and or any other dry commodity of less fresh fruits or vegetables packed in a capacity than the standard barrels de- closed package and intended for sale, fined in the first section of this act, unless such package is marked as is

and any person guilty of a wilful vio- offer, expose or have in his possession lation of any of the provisions of this for sale, any fresh fruits or vegetables act shall be deemed guilty of a misde- packed in a closed or open package, meanor and be liable to a fine not to upon which package is marked any exceed \$100, in any court of this state designation which represents such having jurisdiciton: Provided, how- fruit as "No. 1," "Finest," "Best," "Exever, that no barrel shall be deemed tra Good," "Fancy," "Selected," below standard within the meaning of "Prime," "Standard," or other superior this act when shipped to any foreign grade or quality, unless such fruit or country and constructed according to vegetables consist of well-grown specithe specifications or directions of the mens, sound, of nearly uniform size, foreign purchaser if not constructed in normal shape, good color, for the vaconflict with the laws of the foreign riety, and not less than ninety per country to which the same is intended cent free from injurious or disfiguring bruises, diseases, insect injuries or 370. Sec. 3. Reasonable variations other defects, natural deterioration shall be permitted and tolerance estab- and decay in transit or storage ex-

226. Sec. 5. No person shall sell or



offer, expose or have in his possession for sale, any fresh fruits or vegetables packed in any package in which the faced or shown surface gives a false representation of the contents of such package, and it shall be considered a false representation when more than twenty per cent of such fresh fruits or vegetables are substantially smaller in size than or inferior in grade to, or different in variety from, the faced or shown surface of such package, natural deterioration and decay in transit or storage excepted.

227. Sec. 6. Every person who, by himself, his agent or employe, knowingly violates any of the provisions of this act shall for each such offense, be deemed guilty of a misdemeanor, and upon conviction thereof shall be punished by a fine not exceeding \$10, or by imprisonment in the county jail for a period not exceeding thirty days, or both such fine and imprisonment in the discretion of the court.

Standard for Baskets.

(Act No. 74, Session Laws of 1917). AN ACT to fix standards for climax baskets for grapes and other fruits and vegetables, and to fix standards for baskets and other containers for small fruits, berries and vegetables, and to punish violators of the same. 350. Section 1. The people of the state of Michigan enact, that standards for climax baskets for grapes and other fruits and vegetables shall be the two-quart basket, four-quart basket and twelve-quart basket, respectively.

(a) The standard two-quart climax basket shall be of the following dimensions: Length of bottom piece, nine and one-half inches; width of bottom piece, three and one-half inches thick; thickness of bottom piece, three-eighths of an inch; height of basket, three and seven-eighths inches, outside measurement; top of basket, length eleven inches and width five inches, outside measurements. Basket to have a cover five by eleven inches, when a cover is used.

(b) The standard four-quart climax basket shall be of the following dimensions: Length of bottom piece, tour and one-half inches; thickness of bottom piece, three-eighths of an inch; height of basket, four and eleven-sixteenths inches, outside measurement; top of basket, length fourteen inches; width, six and one-fourth inches, outside measurement. Basket to have cover six and one-fourth inches by fourteen inches, when cover is used;

(c) The standard twelve-quart climax basket shall be of the following dimensions: Length of bottom piece, sixteen inches; width of bottom piece, six and one-half inches; thickness of bottom piece, seven-sixteenths of an inch; height of basket, seven and onesixteenth inches, outside measurements; top of basket, length nineteen inches; width nine inches, outside measurement. Basket to have cover nine inches by nineteen inches, when cover is used.

351. Sec. 2. That the standard basket or other container for small fruits, berries, and vegetables shall be of the following capacities: namely, dry onehalf pint, dry pint, dry quart, or multiples of the dry quart.

(a) The dry half-pint shall contain

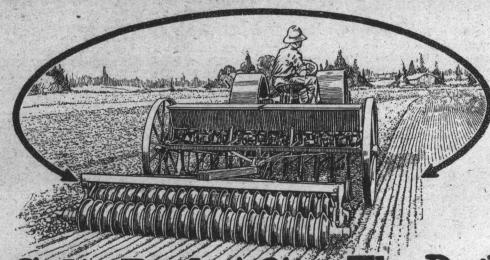
16 8-19 cubic inches; (b) The dry pint shall contain 33

6-10 cubic inches. (c) The dry quart shall contain 67

2-10 cubic inches. 352. Sec. 3. That it shall be unlawful to manufacture for shipment, or to sell within the state any climax baskets or other containers for small fruits, berries, or vegetables, whether filled or unfilled, which do not conform to the provisions of this act; any person guilty of a wilful violation of any of the provisions of this act shall be deemed guilty of a misdemeaner, and upon conviction thereof shall be fined in any sum not exceeding \$25:

TRADE MARK REG.

Cultivares - It Packs



Culti-Pack After The Drill

Culti-Pack your soil after the grain drill or seeder. You can pull the Culti-Packer and seeder with a tractor at almost no extra cost-or you can pull them separately with horses.

Here are five things you will gain by so doing:

- 1. Quicker germination especially in dry weather, due to firming of soil about seed, and the moisture-saving mulch
- 2. Saving of seed by increasing the percentage of seed which sprout.
- 3. Fewer weeds because the crop will get an early start and choke out the weeds (which are unevenly planted).
- 4. Less crusting of soil on account of the ridged condition in which it is left.
- 5. Better root development due to the fine, compact, moist bed of soil. These and hundreds of other soil facts are illustrated and described by leading soil experts in our 56-page book, "Soil Sense."

Ask your dealer for a copy.

CULTI-PACKERS for sale by your local implement dealer.

The Dunham Company, Suburb of Berea, Ohio

"The Show Window of Michigan"

West Michigan Fair

Grand Rapids, September 15, 16, 17, 18, 19

A complete and great exposition of the products of the farm and the orchard. Conducted strictly upon the lines of the real agricultural and live stock fair with exibits that are unequaled in quality and seldom surpassed in volume.

No Michigan farmer has seen the real fair until he has visited this one.

We do not deal a great lot in the spectacular but every year show something new. This year's novelty is

Lieut. Ormer Locklear

changing planes in mid air—a feat no other aviator has attempted. There are five big aeroplane acts in the Locklear show, which he puts on for us September 16, 17, 18.

Reduced Rates On All Michigan Railroads

SEEDS WANTED

Michigan Grown
Winter Vetch, Rye and Vetch, June and Mammoth Clover, Alfalfa, Sweet Clover, Alsike and Field Peas. Known varieties of Garden Peas, Beans and other Garden Seeds, if High Germination and 1919 crop.

Send samples for test.
The C. E. DePuy Co. Pontiac, Mich.

RED ROCK WHEAT

Grown from certified seed; absolutely pure and free, from smut, no rye, no foul stuff. In 10 bu. lots, \$2.60, bags extra. Wesley Hile, R. D. 6, Ionia, Citizens phone Saranac, Mich.

RED ROCK SEED WHEAT Registered under number 9031. For sale by W. B. Stickle, Three Oaks, Mich. R. R. No. 1. Phone 60 F 13.

BARN PAINT \$1 PER GALLON quality. We pay the freight. Franklin Color works,

Franklin, Ind.

Profitable Employment

A good way to get money for Thrift Stamps, Liberty Bonds, or to help in the high cost of living. From two to three dollars a week can be earned with little effort.

Details furnished upon request. THE MICHIGAN FARMER,

Continued on page 291). Please Mention The Michigan Farmer When Writing to Advertisers

Our Boys' and Girls' Department

From Boy to Man--with Sheep

By E. L. Vincent

MONG my earliest recollections stand out prominently the sheep which my father kept on his farm in the western part of New York the old plan then in force among the around, always seeking the best, until The days when we went to wash our sheep before shearing were red-letter days in my boyhood life, for the creek in which this work was done was some three miles from our home and I was privileged to go with father and the other men and help to corral the sheep in the little yard close down by the water's edge, from which they were taken in their turn to be dipped, backdeep, into the creek and their wool cleansed from the dust and other accumulations of the winter then at an end. My father was very particular that the wool he offered for sale should be as clean and free from any objectionable matter as possible. In those early days I came to love sheep, and my love for these animals never has faded away since.

Then came the great War of the Rebellion, which robbed us of father, for he never came home, seeing his last back to shepherd not only his flock of sheep myself, which I did more than was shearing the sheep, a job from more. The farmers of Broome county sheep, but the other little flock he lov- once.

state. One such flock holds a promi- farmer folk of our neighborhood, doub- we had Shropshires, a little group of mother and this oldest laddie were the nent place in my memory. It was made ling once in four years. I do not re- which is shown in the accompanying ones who made these trips, caring for up entirely of Merino sheep of choice member the number in that flock, but illustration. The picture was taken by quality, by which we set great store, if there were ten, then at the end of our youngest son.



Sheep Have Always Held a Good Place in Our Farm Life.

service at the battle of Gettysburg; the four-year term we returned the orbut mother and her six boys and girls iginal ten and had ten for our own scribed earlier in this story had then good place in our farm life, and no one kept the sheep, hoping at first that the profits. In those later years at home gone by, the wool being sold unwash- rejoices more than we do to see these war would end and father would come it fell to me to wash and shear the ed, but one of the early summer jobs creatures coming to their own once

The days of washing wool as dewhich I was later relieved by our old- have lately sold their wool on the coed so well. All through those years it After we bought a farm for our est son when he was strong enough operative plan for fifty to sixty cents was mother and I-for I was the old- selves in the southern tier of New for such work. Many a night have I a pound, realizing by this method five est of the six-who cared for the sheep. York state, in Broome county, we had gotten up in the spring of the year to or six thousand dollars more for the I remember that at one time we kept sheep of our own. The day of the go down to the barn to see how the clip than they otherwise would. And a little group for a neighbor who had Merino's had gone by in that section ewes were coming on when the lambs we hope for better things for the days not as much pasture as he needed, on and we had little by little shifted were coming; and when I was not at to come.

seat, serving on the board of supervisors, or at the state capitol where I served as member of the legislature, the wee lambkins and attending to the wants of the mother sheep. More than one of these was thus tided over when chilled, by being brought into the house and warmed by the kitchen stove until the breath of life came back to it.

The first sheep our oldest boy ever had was a gift of the fine old farmer grandfather, whose farm was three miles away, on the hills of Broome county, at Mt. Ettrick, where lived as fine a body of Scotch farmer shepherds as this country ever knew, one of whom was 'Squire William Hogg, a direct descendant of the famous Ettrick Shepherd of Scotland. It was grandfather's plan to give every grandson born into the family a lamb as soon as he was large enough to keep and take care of it; and that little Nan was beloved as few lambs ever were, and Laddie had the offspring for his own for many years, until he had a nice flock of his cwn.

So that sheep have always held a

Prize Letter Contest---"The Circus"

FIRST PRIZE.

The Circus.

One day my mother, sister and myself went to the city to see the circus, and as we wanted to see the whole performance we went to the grounds

ers one. One animal which I saw was the blood-sweating hippotamus, and he certainly was a big, queer-looking

About two o'clock we went into a still bigger tent, and here we took our seats, for in this tent we were to see the show.

Soon the clowns began to come in and they looked awful funny. After they had gone out ladies came in who swung on ladders, and others swung with the ropes held between their teeth.

Horses, ponies and dogs together did tricks, and there also was a man and woman who walked on a rope.

Something that was very pretty were the different groups of statues composed of ladies all dressed in white and white horses. They were motionless and looked as though they had been carved out of marble.

We certainly had some good laughs at the different clowns who came and went between each performance.

After that we went home, after a

Johnson, Gowen, Mich. Age twelve ons, some of them had lions in, some Dansville, Mich. Age ten years.

HONORABLE *MENTION.

First, we went into a large tent Ringling Bros. and Barnum & Bailey I saw a wild man, a man that was where they kept the animals and there came to Lansing. My papa took my eight feet six inches tall. He was very The day of the circus dawned bright we saw elephants which caught the two sisters and little brother and my-large. I cannot tell you all the things and clear. We left for the city about peanuts which the people threw to self. I saw many strange things. The I saw, but these are the ones I remem twenty miles away. We arrived about

bears, and tigers. I went into a side show and saw two little ladies and three little men. They were about three feet tall. One little lady and man had just got married. They seem-

day not quickly forgotten.—Ruth E. the elephants, then came large wag was glad I had gone.—Lucille Patrick,

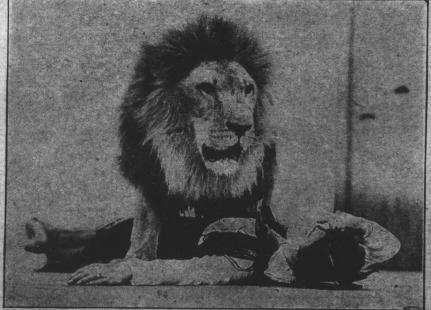
HONORABLE MENTION.

The Circus.

Oh! the thrills that I experienced On August 2 the combined circus of ed very happy and they danced for us. when I was told that on the morrow we would leave early for the circus. them, with their trunk, and also some parade was very nice. First the horses ber the best. We got home at ten eleven-thirty, just in time to see the camels which had two humps and oth- came, and little ponies, the camels, o'clock at night. I was very tired, but parade, which was the longest I have ever seen. After the parade we lunched at a cafe and about two o'clock left for the circus. It took us about ten minutes to purchase our tickets and followed the crowd into the tent which contains the animals.

Among the animals that I had never seen and are uncommon to most of the circuses, are the giraffes, hippotamus, kangaroo, zebra and tigers. The common ones were bears, elephants, monks, camels, seals and a few others. Upon arriving at the big tent we bought some peanuts and took our seats. Soon the bugles were blown by the heralds and all the performers paraded around the arena. Among them being Cinderella, Queen of Sheba, many court jesters, king and queen, knights of the middle ages. Chinese princes and men, hunters, huntresses and dogs, made up the parade.

Among the many things that happened in the circus rings was a wonderful slack wire dancer, a bareback rider who turned a somersault through a hoop, acrobats, trapese performers,



The Lady Lion Trainer Takes Big Risks.

clowns who did many funny things. Wonderful living statues, trained dogs, elephants and bears. The circus had three rings and three stages and lasted about two hours. After leaving the tent we saw some side shows, got some red-hots, orangeade, ice cream and crackerjack.

A tired party left for home about five thirty after a most exciting day.-Louise Gregory, Bay City, Mich. Age fifteen years.



GIRL ENTERS SHOW RING WITH RHODE ISLAND REDS.

OROTHY YOUNT, Lincoln county, N. C., is the proprietor of the "one-ring circus" ever owned and operated in the Tarheel State, according to her own statement. Instead of using clowns, trained ponies, troops of acrobats, elephants, snake charmers, and wild western cowboys to disport themselves and amuse the spectators, Dorothy works' with Rhode Island Red hens, and her fewls cater to the plaudits of the state at large.

Two years ago the poultry club agent of North Carolina, a representative of the United States Department of Agriculture, examined Dorothy's flock. He admired the birds and suggested that she exhibit a few at the state fair that season, and he promised to return in the fall and assist in selecting her exhibition fowl. That is how Dorothy happened to go into the "circus business." At the first show she attended she was awarded first and second honors on a Rhode Island Red cockerel, and first and third prizes on a Rhode Island Red pullet, and furthermore, sold all her winners at high prices before she left the show. Later in the winter, at Wilson, N. C., she exhibited and captured other honors. At this exhibition the judges pronounced her cockerels fit to show in any competition.

More Prizes Won.

Then Dorothy assembled a flock of forty females and three males, and in the spring of 1918 began keeping records on her birds. That year she sold \$178 worth of foundation stock, some of the cockerels selling as high as \$15 apiece, while the pullets brought as much as \$12.50 each. Dorothy culled out and marketed \$59.22 worth of unsatisfactory fowl from the flock and disposed of \$72.50 worth of eggs for hatching purposes, as well as \$32.30 worth of market eggs. During this period her feed bill totaled \$139, which left her a net return of \$209.02 from her forty hens.

Our Prize Contest

To the boy or girl writing the best letter, of less than 250 words on each of the following we will give a cash prize of \$1.

Subject of letter to be mailed by September 15:

"The first day of school."

Subject of letter to be mailed by September 22:

"My best Kodak Picture." (Inclose the picture with the letter).

Write neatly with ink on one side of the sheet only. Give your age, full name and address.

Address your letters to The Boys' and Girls' Dept., Michigan Farmer, Detroit, Mich.



Ring Necked Pheasants

We can now make shipments of our birds. They will lay next spring—are easy to raise and do not eat one-half as much as chickens. These birds are not subject to disease—are hardy and unrelated. You can sell their young and eggs at good prices—they are much more profitable than chickens. Single Pheasants 5 Hens, 1 Cock (Pen) 30.00

Genuine Wild Mallard Ducks

Garanteed to be from nothing but genuine Wild Trapped stock—not the coarse semi-wild strain. Will lay next spring. Fine eating—good decoys— and money makers. Single Ducks or Drakes 5 Ducks, 1 Drake (Pen) 25.00 Each

Bloomfield Giant Bronze Turkeys



POULTRY

Buff Leghorns, and White Leghorns, all early hatched Cocker-els from great laying strains \$1.50 each. Dr. WILLIAM SMITH. Petersburg, Mich.

HOMESTEAD FARMS

Guineas, Ducks, Geese--White Pekin, Gray Tonlouse Turkeys--Bronze, White Holland, Bourbon Reds. Rabbits--Belgians, New Zeelands, Rufus Reds, Flemial Giants.

Please send for Fall Price List and for Spring Cata-log, if you do not have one already. STATE FARMS ASSOCIATION, Bloomingdale, Michigan

Barred Rocks Exclusively. Baby chicks all sold. Thanks to all our customers. Order early for next season: H. H. Pierce, Jerome, Mich.

Barred Rocks egg contest winners, eggs from strain per setting prepsid by P. P. Circular free. FRED ASTLING. Constantine, Mich.

Fowler's Buff Rocks Cockerels \$4 up. Utility eggs for hatching \$2.00 for 15. R, B. FOWLER, Hartford, Mich.

March Hatched R. I. Red Cockerels Both Combs. Write for prices and order early. Interlakes Farm. Box 39, Lawrence, Michigan

R.C. Brown
LEGHORNS, Pekin Ducks, W. Chingson Geese. Place orders early for young stock.

Mrs. Claudia Betts, Hillsdale, Mich.

S. C. B. Minorcas. Eggs from pen 1, \$3.00 per 15, from pen 2,\$2.00 per 15. Incubator eggs \$7.00 per hundred.

R. W. MILLS. Saline, Mich.

Silver Golden and White Wyandottes young breeding stock after Oct. 1st. Choice cocke als \$5 to \$15. Write your wants now. C. W. Browning, R2 Portland, Mich.

S. C. Ancona Cockerels April-May hatch. Bes A few hens \$2 each. S. J. Edwards, R. 1, Sears, Mich Single Comb White Leghern Cockerels. Ferris 230 254 egg strain April and May hatch from \$1 to \$2.50. Alvah Stegenga, Portland, Mich.

LOOK CHICKS \$13 A 100 UP

By Special Delivery Parcel Post, postage paid 20 dif-ferent thorobred breeds. Utility & Exhibition grades Live delivery guaranteed. Capacity 100,000 weekly Catalog free. Nabob Hatcheries, Gambler, Ohio.

Some Special Clubbing Offers

No. 1. Michigan Farmer\$1.00 Cloverland Magazine 1.00 Power Farming 1.00

Regular price, one year.....\$3.00 **OUR PRICE ONLY \$2.10**

No. 2. Michigan Farmer\$1.00 Hoard's Dairyman 1.00 Woman's Magazine 1.00

Regular price, one year.....\$3.00 **OUR PRICE ONLY \$2.50**

For sale "Buy the Best" eggs for hatching from 200 rog strain Barred Plymouth Rock. \$2.00 per 15, \$5.00 for to eggs. H. B. PROCTOR, Grand Haven, Mich. Michigan Farmer\$1.00 Swine Breeders' Journal...... Today's Housewife ...,..... 1.00

> Regular price, one year.....\$2.50 **OUR PRICE ONLY \$1.85**

No. 4. Michigan Farmer\$1.00 People's Home Journal 1.00 American Boy 2.00 Regular price, one year.....\$4.00

OUR PRICE ONLY \$3.15



WALLPAPER

Per Write for Free Sample Catalog of 87 new
designs and colorings CROII Why use Paint when 52c will paper Room 12 x 14, 9 ft. high Martin Rosenberger, SIRACE STREET CINCINNATI, o.

Please Mention The Michigan Farmer When Writing to Advertisers.

Woman's Interests

Community Work Shops

to four classes, cooking, cleaning, laun- in a farm kitchen. dry work and chamber work. A real at Miss Gale's glib summing up of our only get someone to do her washing to you to get the canning done? duties. If that were all there is to it, she wouldn't ask for anything more in who of us would need help? It is the life. How many thousands of farm thousand and one little things which women, who this morning are tugging nobody notices unless we leave them heavy pails of water and lifting tubs undone that wear us out.

things, bundle the children off to tive creameries which are successful, loaves of bread. school and inaugurate a system of com- and a few districts already have coopa wage earner, will need her sleep to it? just as poor dad needs his now.

would come to the idea of buying all their meals from a community kitchen, and in fact it is doubtful whether such a scheme would pay in the country. Distances are so great, transportation

N a series of three articles in re- facilities so limited that it would cent issues of a widely read wom- scarcely be feasible. Though with Gale divides a housekeeper's work in the many forms of work which go on

be many a year before farm homes Why couldn't you have a cooperative entails.

cannery? The girls who have been learning how in the clubs could do the en's magazine, Zona Gale launches "jitney" service it might be worked neighborhood canning and earn their her idea of the coming methods in out in more thickly settled farming own pin money. In a few schools they housekeeping. To begin with Miss districts. But cooking is only one of are already trying it out a little. The women send their own cans and rubbers with the fruit or vegetables and A farm woman told me the other the girls do the work for three cents a housekeeper may be excused a smile day with a tired sigh, that if she could can. Wouldn't it be worth that much

Why wouldn't a cooperative bakery be practical? I am not sure of this figure but I am almost positive that one girl told me she and her mother baked which they know they have no busi- up a barrel of flour a month. Often At any rate, taking her classification ness to touch, can echo her senti- they are up scrubbing the floor at midas it stands, she is going to settle the ments? Why couldn't you have a com- night. They might get that scrubbing whole thing by sending mother out as munity laundry, a cooperative affair out of the way by four o'clock in the a wage earner, hiring an eight-hour-a- where your work could be done for a afternoon if someone else baked those day trained specialist to do these four moderate price? You have coopera- pies and cakes and all those countless

It is in such ways as these that the munity kitchens to send in the meals. erative laundries. The scheme is en- farm women must get help if the girls She, with poetic license, fails to say tirely feasible and easily put into ex- are to be kept on the farm where they what is to be done with the children ecution. All it needs is a leader who are so sorely needed. For certainly before they can go to school, who is to will talk long enough and convincingly no up-and-doing 1919 girl is going to nurse the baby during its early months enough to get the thing started. Once devote her young years to such gruelor who will walk the floor with it relieved of the drudgery of wash day ling work as she sees her mother tied nights. For, of course, mother being what woman would voluntarily go back up to. One look at mother's drooping shoulders, tired face, roughened hands There's your canning, too. What a and fading complexion, is enough to Taking these articles at their face lot of time it takes, just in the busiest decide daughter that life in a city with value, there is still the germ of a good season when your garden and poultry labor-saving devices is more to be desiridea in them. That is the thought of demand extra time and there are al- ed than the broad, free expanse of the community kitchens. It will probably ways two or three more to cook for, country, with all the hard work it

It's Tomato Time

By Lydia M. Thornton

25 Cents

Will buy a Big Package of

POSTUM CEREAL

weighing over a pound, net.

What are you paying for coffee?

52525252525252525252525252525252525

N the home where tomatoes are a a cupful of stewed tomatoes, stir up will be found on the table twice a day, but if you become tired of the plain sliced or stewed article, try the follow- teaspoon of butter, one-half teaing, some of which will make tasty spoonful of salt and a little red supper dishes:

Escalloped Tomato.

several kinds if you have them- five eggs in a separate dish and add through a meat chopper. In a butter- one cupful of stewed tomato-not too ed baking dish put a layer of sliced juicy-to the hot cheese mixture. Cook cold boiled potatoes, then a layer of two minutes and serve on toast. the meat, over this a layer of sliced ripe tomatoes and a sprinkling of salt and pepper. Repeat until the dish is them in pieces about as large as a filled. Over the top put a scanty layer chestnut. Mix with stuffed olives cut of bread crumbs dotted with butter. in half lengthwise and serve with a Pour in a cupful of rich sweet milk cooked or mayonnaise dressing. and bake forty minutes.

Tomatoes and Macaroni.

a small teaspoonful of sugar, a piece the bottom of the keitle to keep the of butter, and one and a half cupfuls tomatoes from burning until the juice utes over a moderate fire, then set of fried bacon over the top. aside to cool. When quite cool, stir in the beaten yolks of two eggs; re-

Tomato Scramble.

Beat four eggs slightly, season with

popular product of the garden, they once, then serve hot on buttered toast. Tomato Rabbit.

To one-fourth cupful of milk add one pepper and mustard, grate in one-half pound of mild cheese and heat slowly Put cold meat of any kind-or of until cheese is nearly melted. Beat

Tomato and Olive Salad.

Pare firm yellow tomatoes and cut

Tomatoes with Dumplings.

Pare and slice the tomatoes and put Boil one cupful of macaroni in salt- in a kettle of a suitable size. Over the ed water until tender. Cut six pieces top put corn meal dumplings made of of bacon in inch pieces and put in a milk, salt, baking powder, and equal pan over a slow fire until part of the proportions of corn meal and wheat fat is tried out; add one medium-sized flour. Put the kettle over a moderate onion chopped and the macaroni which fire and cook until the dumplings are has been previously drained. Stir in done. A little water should be put in ng until the of stewed tomatoes. Cook fifteen min- begins to cook out. Serve with slices

Beans with Tomato Sauce.

Cook the beans until all extra water turn to the fire and reheat, being care- has boiled out, leaving them almost as ful to remove before the eggs begin to dry as baked beans. Serve with a curdle, which will be at about the boil- sauce made of one cupful of strained ing point. Serve with a few very thin tomato juice, one tablespoonful flour, strips of sweet green pepper scattered one tablespoon butter, and season with salt and pepper. Stir the mixture well and cook until it thickens.

Tomato Oysters.

salt and pepper and turn into a butter. Remove inside from large smooth ed frying pan. Stir the eggs until they tomatoes. Chop two dozen raw oysare well scrambled but still soft; add ters, one ounce chopped salt pork, one

cupful bread crumbs, the juice and pulp taken from the tomatoes, one choppen onion, and salt and pepper to season. Fill the tomatoes with the mixture and bake in a moderate oven for thirty minutes.

Tomatoes and Cheese.

Slice large firm tomatoes, drain, salt and let stand in a cool place. When chilled, spread with a paste made of cream cheese or cottage cheese, finely chopped green pepper and a little paprika. Place two slices together sandwich fashion, and serve on lettuce with a little salad dressing to which a little finely chopped onion has been added.

Tomato Spice. To three pounds of skinned and sliced tomatoes add one pint of vinegar, four cups of sugar and spices to taste. Boil down until it is the consistency of jam, taking care not to let the mixture scorch. This is delicious with cold

Tomato Jelly Salad.

To a pint of strained tomatoes, seasoned, add one-fourth package of gelatin, mold in cups and when cold turn onto lettuce leaves and serve with salad dressing. A nice variation of this is the addition of a little finely chopped cucumber or stuffed olives.

BULLETINS FOR THINKING PAR-ENTS.

The Michigan State Board of Health has a series of bulletins which every thinking parent should possess. They are "For Parents of Children," "For Girls and Young Women," "For Boys,"
"For Young Men." Write to the board of health at Lansing for these, asking for only the ones for which you have actual use.

MICHIGAN FARMER PATTERNS.

Any of the patterns illustrated may be secured by sending order to Pattern Department, Michigan Farmer, Detroit, enclosing the amount set opposite the patterns wanted.



No. 2907-2931.—Ladies Costume. The waist, 2907, cut in seven sizes, 34, 36 38, 40, 42, 44 and 46 inches bust measure. Size 36 requires 33% yards of 27-inch material. Skirt, 2931, cut in seven sizes, 22, 24, 26, 28, 30, 32 and 34 inches waist measure. Size 24 requires 25% yards of 50-inch material. Width of skirt at lower edge is about 1½ yards. Two separate patterns, 10c for each pattern. each pattern.

No. 2926—Ladies' Dress. Cut in seven sizes, 34, 36, 38, 40, 42, 44 and 46 inches bust measure. Size 38 requires four yards of 54-inch material. Width of skirt at lower edge is about 1% yards. Pric 10 cents.



No. 2957—Girls' Dress. Cut in four sizes, 8, 10, 12 and 14 years. Size 12 will require four yards of 40-inch material. Price 10c.

No. 2808-Girls' Dress. Cut in four sizes, 6, 8, 10 and 12 years. Size eight requires 3½ yards of 27-inch material for the dress, and three fourths of a yard for the bolero. Price 10c.

Lily White

"The flour the best cooks use"

For exacting women who place quality above price; who realize true economy is practiced when complete satisfaction is obtained.

Of course, a good cook will be able to bake good bread and biscuits from the ordinarily good flour.

But if you desire something A LITTLE BETTER, more light, flakier-with a delicious flavor and splendid color-LILY WHITE should be used.

Money back if it does not give complete satisfaction.

VALLEY CITY MILLING COMPANY GRAND RAPIDS, MICHIGAN.

160-Acre Michigan Farm \$5500; Mile to

Depot town, on state road, 7 miles large city, 60 acres dark loam tillage, clay subsoil, 40-cow, woven wire, fenced pasture, home wood; good apple orchard, fruit. 8-room house, large modern stock barn, sile, poultry, hog, corn houses, all good. Owner retiring offers quick sale bargain, \$5500, terms. Details page 85 Oatalog Bargains 19 States, copy free. STROUT FARM AGENCY, 814 BO. Ford Bidg., Detroit, Mich,

We Have For Sale the following lands and improved lands, well located, easy terms. 150 acres of fine unusted 5 miles from Gladwin, on daily mail route, close to school, all fenced with woven wire. 20 acres under fine state of cultivation, 6 acres in fruit, 70 acres more of same tract brushed, logged and burned: sheep ranch of 310 acres, all fenced, living water, 70 acres of this ranch cleared, 30 acres of which is under fine state of cultivation with fruit orchard. House 26x25. Sheep sheds and barn 64x50. Tool house 65x32. 170 sheep, 110 this season's lambs. We have three fine Stock Ranches, well grassed, well fenced, living water.

McClure Stevens Land Co. Gladwin, Michigan.

MINNESOTA farm opportunities are and pictured in a book by the U.S.R. R. Administration for the in

Never For Sale Before

Here is a Beauty and Corn 3000-lb. horses, 3 fine cows, 50 chickens, harness, tools; all for \$8,500, \$4,500 cash. HALL'S FARM AGENCY. 33 Market St., Corning, Stenben Co., New York.

160 Acre Bargain. 100 acres under plow, balance buildings, close to school, churches, and stores, 12 head of cattle and all farm tools and crops. Price, 3500.

o. acres, good buildings. Close to to city, \$1300. acres, stock, tools and crops, \$5250. ll on easy terms.

John Conant, Grand Haven, Mich.

Michigan Country Home in "The College County" for sale. Immediate possession: on long term contract if desired, fully equipped 220-acre dairy farm with established state and federal inspected herd, registered Holstein-Friesian cattle; two good farm homes within 5 minutes of State Normal College, 30 minutes of University of Michigan, 50 minutes of Detroit, 90 minutes of Toledo, over good roads. With or without cattle and equipment. William B. Hatch, Ypsilanti, Mich.

Farms and Farm Lands For Sale 80 ACRES, 1 mile Columbiaville. First class watered. 12 acres heavy beech and maple, 88 cultivate ol 80 rds. Improved road, fine country. \$8,000 cash. HOLMAN REAL ESTATE AGENCY

Looking for a Farm? Don't fail to send for our list and prices. WELLINGTON, OHIO.

Gladwin County Productive Investigate this desirable section before buying farm, It will pay you. Write for information. U. G. Reynolds, Gladwin, Mich.

120 Acre farm, low price, 50 acres clear, 10 Maple timber, rest pasture. New building, 1½ mile from E. C. L. L. Station, etc. Owner, H. De Groot, Northland, Mich.

Nevada grazing land \$2 per acre, \$1 cash per down, young man this is your opportunity N vada Land Co. 33 Baker St. Detroit, Mich.

Rich Michigan Farms. Low prices. Easy terms STAFFELD BROTH ERS. 15 Merrill Building, Saginaw, Michigan Highly improved 87 acre farm \$7000, E. Z. Address Mr. McAdams, 1250 W. Euclid, Detroit, Will mail views

Rich Michigan Farms. Improved and unimproved Clay subsoil and clovered. Well drained, nea school. C. M. Smith, State Bank, Coleman, Mich.



seven sizes, 34, 36, 38, 40, 42, 44 and 46 inches bust measure. Size 38 requires six yards of 44-inch material. Width of skirt at lower edge is about 1% yards. Price 10c.

No. 2954-2874—A Smart Coat Suit.

No. 2954-2874—A Smart Coat Suit. Coat 2954 cut in seven sizes, 34, 36, 38, 40, 42, 44 and 46 inches bust measure. Size 38 requires four yards of 44-inch material. Skirt 2874 cut in seven sizes. 22, 24, 26, 28, 30, 32 and 34 inches waist measure. Size 24 requires three yards of 36-inch material. The width of skirt at lower edge is about 1% yards. Two separate patterns 10c for each pattern.



No. 2513—Child's Short Clothes Set. Cut in five sizes, 1, 2, 3, 4 and 5 years. Size four requires for the dress 2% yards. For the petticoat 15% yards. For the combination 1½ yard of 36-inch material. Price 10c.

No. 2955-Girls' Dress. Cut in four

No. 2750—Ladies' Cover-all Apron. Cut in four sizes; small 32-34; medium 36-38; large 40-42, and extra large 44-46 inches bust measure. Size medium will require 4½ yards of 36-inch material. Price 10c.

No. 2943—Ladies' Service Dress. Cut in seven sizes, 34, 36, 38, 40, 42, 44 and 46 inches bust measure. Size 38 requires 6½ yards of 36-inch material. Width of skirt at lower edge is 2¼ yards. Price 10c.

Cut Down Milking Costs

IKE a hole in the milk pail, the cost of hand milking is a big drain on dairy profits.

"I have had a great deal of trouble in the past in keeping competent hired men, particularly during winter," writes Mr. Clarence Vose, Kenosha, Wis. "Last fall I purchased a Success Milking Machine and let my man go in the fall. Milked 22 cows all winter with the Success and am highly pleased with it. It has made money for me.'

is the greatest time and labor saver on the dairy farm. every herd, from eight cows up, a Success Outfit will quickly pay for itself, and make your cows pay you extra profits for many years.

The Success has so few parts that it is easy to eperate and the upkeep cost is next to nothing. No pulsators or other complicated contrivances—no big expensive vacuum tank or pipe line to install or bother with. The teat cups are the simplest made — fit perfectly, yet have no rubber

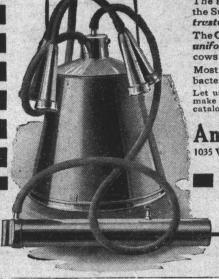
linings to wear out. The simple and durable construction of the Success Milker accounts for its long, trustworthy service.

The Open Valve accounts for the steady, uniform action, which means contented cows and better milk yields.

Most sanitary milker made-keeps down bacteria count.

Let us tell you how a Success Milker will make bigger dairy money for you. Write for

Anderson Sales Co.





THE 70 lb. bag is just the right size for farm use. It is easy for the dealer to stack them up and again it's easy for the buyer to place them in a truck or wagon, automobile or buggyandkeepinagood dry place in the house.

It is convenient to open at the top and a simple matter to take out the salt. Being packed in

a good bag, it is less expensive and much easier to handle than a barrel.

For these reasons we pack

SPECIAL FARMER'S

in 70 lb. bags.

THE COLONIAL SALT COMPANY

AKRON, OHIO Chicago, Ill. Buffalo, N. Y. Boston, Mass.

Mention The Michigan Farmer When Writing to Advertisers improper food and care would prob Holstein contingent.



Variations in Milk Tests

cases the percentage of butter-fat vary- possibilities. ing from 2.7 to 6.7 per cent in the different milkings of two consecutive

What causes these variations in milk tests of individual cows? As a rule they result from the succulence and nutritive value of the food, tem- shipment of forty-one head of pureperature and nutritive value of the bred cattle which recently left on the food, temperature of the weather and first leg of the journey to Montevideo, the health condition of the cow. The Uruguay. The cattle are consigned ordinary dairy cow on dry winter feed to E. Parreja Reissig at that port. or good pasture in summer will show less variation in the per cent of but- try on Mr. Reissig's order through the changed. The first principle of main- export department of the American since cows regularly fed and handled breed to South America a few months show more uniform milk and butter- ago.

to determine accurately between the try, to whom the animals in this condifference in milk tests due to hered-signment will be distributed by him on ity and those due to feeding and man-their arrival. agement. When one studies the variasupposed.

Successful breeders believe and three cows are Holsteins. maintain that the only way to permaanimals. That is, that every cow main- York. tains a certain definite percentage of for each period of lactation.

fat than the same cow would if poorly Ky., had one each. fed and badly treated. Exceptions may be noted, but as a general breed- a Shorthorn from each of three herds ing proposition families that produce there, those of Stasley F. Miller, C. milk with a low percentage of fat will M. Herr & Son, and Reynolds Bros. continue to produce cows with that being represented. Anoka Farms, of characteristic. Innumerable experi- Waukesha, Wis., had two animals, as ments conducted in an effort to in- did also E. B. Thomas of Audubon, crease the test of milk have failed.

dry, she will not only store up on her Fennern, Avoca, Iowa. This probably explains why it is possi- the beef breeds. ble for some of the famous breeders butter-fat records.

S a general proposition milk is a ably fall considerably below her nor-product that is fairly uniform in mal test. Her production of butter-fat composition. At the Maine ex- might differ greatly from what it would periment station the fat content of the when she was given proper treatment. milk from a herd of mixed cows fluc- Sustenance and attention are the retuated on an average of 3.75 per cent quisites of obtaining a maximum perof its usual amount at each milking, centage of butter-fat from the individand the total yield of butter-fat varied ual cow, the same as they are in obfrom eight to ten per cent of its ordi- taining a maximum flow of milk. The nary yield at the same time. Never- cow that makes a credible record as a theless the milk yield and composition producer of fat does so because she of cows that are on official test shows receives a line of treatment calculated some remarkable variations, in some to bring out the best of her inherited W. M. K.

AMERICAN CATTLE FOR URU-GUAY.

THREE leading beef breeds and one dairy breed are represented in a

The selection was made in this counter-fat produced than during months various breed organizations, the acin which her ration is frequently tual shipment being made through the taining a uniform butter-fat test is Shorthorn Breeders' Association, uniformity of feeding and management which sent a consignment of that

Mr. Reissig ordered the cattle, act-It is always a perplexing problem for ing as the representative of a group of the breeder of registered dairy cattle prominent cattle breeders in his coun-

Twenty-one Herefords, twelve Shorttion in milk tests made by individual horns, three Angus and five Holsteins cows he is frequently led to believe make up the number going. The Herethat heredity plays a less important ford group is made up of six bulls and part in determining the per cent of fifteen cows; four bulls and eight cows butter-fat produced than is popularly are Shorthorns, two bulls and one cow are Angus, and two bulls and

The cattle went east by rail for the nently influence the percentage of but- coast and will sail for their new home ter-fat is through the breeding of the on the steamer West Avenal from New

The Hereford herd of E. H. Taylor, butter-fat that is normal for that par- Jr., of Frankfort, Ky., contributed five ticular cow. While changes in age, animals to the lot, headed by the bull condition, environment and feed may Woodford 30th 691553. S. H. Velie, of temporarily change the fat content of Kansas City, Mo., and Herbert Hazlett her milk for brief periods, she will of Eldorado, Kan., each had four anieventually return to her normal test mals among the whitefaces selected, and maintain nearly the same average while S. Moser, of Kansas City, had three, and Walter Yost, of the same Of course, it goes without saying place had two. J. W. Van Natta, of that the well-fed, properly treated cow Lafayette, Ind.; H. C. Cox, Lee's Sumwill show a higher per cent of butter mit, Mo., and J. N. Camden, Versailles,

Lodi, Wis., was triply represented by Iowa. One animal each was drafted On the other hand it is a well-known from the herds of James Brown, Dunand generally recognized fact that if dee, Ill.; Eben E. Jones, Bloomington, a cow is fed a heavy ration of rich Ill.; Carpenter & Ross, Mansfield, O.; protein feeds during the period she is Edward Kemp, Tiffin, Ohio, and A. R.

body an excess of lean protein flesh, The Angus bull Enrite 293813 and but will also, when fresh, if fed a nar- the cow, Queen of Buckleyvie 9th 284row, but stimulating ration, milk off 925 from the herd of the Rosengift this surplus lean meat, at the same Stock Farms, Kelley, Iowa, and the time showing a percentage of butter- bull Bar Marshall 3d 287263 from Esfat considerably above her normal test cher & Ryan at Irwin, Iowa, completed

Pabst Champion Mechthilde 250552. of dairy cattle to make such wonderful from Pabst Stock Farm, Oconomowoc, seven-day, thirty-day and sixty-day Wis., and Howard Beauty Prince 251-138, from J. W. Howard, Genesee De-The best cow in the world if given pot, Wis., were the two bulls in the edonal management of the

The Big Idea In Farm Bureau Work

(Continued from page 260).

their hands saying, "Oh, the member- mon sense into the public's business. ship fee is too much, we can't pay it." But inside of fifteen minutes a slick- have any trouble in developing an astongued chap representing a magazine sociation that is big enough to do the and some scientific works that could farmer's business here in Michigan. be bought by the payment of \$1.50 a When the call was sent out for the month for each of twelve months came meeting at Ithaca, New York, last Febin to ask the endorsement of the farm ruary to organize a national federation bureau that he might sell the works to of Farm Bureaus twelve states were farmers or he would not be in the bus- is no use bringing a child into the iness. Now, why will farmers spend world with no prospect of clothing it. their money for things of this charac- In New England farm bureaus have ter and not support the farm bureau? been promoted with public funds, but and farmers have very little faith in it state associations and a national orif they are not willing to back up the ganization will some day not exist. For business with ten or fifteen dollars a this reason we should start at the year. There are many things to do foundation and provide money enough and they can be done with the proper to take care of the farmer's interests.

some of the things our association has fected shipping associations of differaccomplished since its reorganization. ent kinds in various counties of the Our legislative committee has been at state. Cooperative wool market assowork since the first of March. Through ciations have been organized with a their effort we have secured the best big warehouse located in Chicago. Our legislation in the interests of agricul- members have handled practically all ture that has ever been enacted in our of their wool through this organizastate. Not a single law went through tion. Dealers were paying from thirtythat was unfair, and we killed some of two to forty-five cents. A report from the worst bills that could have been the warehouse the other day stated proposed from the farmer's standpoint, that the members would receive some-This bill provided for a scavenger or their wool. We are also investigating mal died the farmer would be obliged pose to do anything until we know to report to this organization and they what is the right and proper thing to would come and remove the animal do. Congress is considering the Kenand charge him \$10 for the service. you bill, which provides restrictions on providing that no one except a trained It is not our purpose to destroy the sickness. This was during the influ- do want to take charge of some of the enza epidemic when we were glad to things that are lawfully our own. secure anyone to aid in the sick-room. The farmers of Illinois need lime from the statute books of our state.

the right to set a just price on their tion at cost. goods the same as do manufacturers of machinery. Governor Lowden said have accomplished in Illinois. As we that he did not know whether the law go on in the work, we see unlimited was constitutional or not, but that he opportunity for serving our members. he believed it was right. Right now chance to save money for and defend one of our organizers, Mr. Cooper, is the rights of the rural folks. Our plan er farmers in selling milk. If this law champion every cause of the farmer. holds then it will be impossible for the We believe it is far more economical interests to use the courts in prevent- to have one strong organization than ing.

bureaus are going to sift out the petty their moral and financial support.

politicians who are anxious to revise ty agent, 1,378 men were enlisted at our fundamental law, and try to put \$10 a membership. Farmers in the men there who will give just considerpoorer counties of the state also re- tion to the farmer's interests. The consponded. In Edgar county where one stitution must be equitable to all classwould declare that the farmers would es, and agriculture must have its place not pay the price, 212 memberships in the constitution. Remember, however, that we are not in politics, we In one county the farmers threw up are merely trying to put a little com-

The progressive farmers should not the farmers of the county. This man represented, but not a single one of was evidently getting \$18 a year out of them had any financial backing. There Farming is not much of a business, public appropriations for farm bureaus,

Other projects have been carried out Now let us turn our attention to by our home association. We have ef-One of these was the scavenger bill, thing like sixty-four cents a pound for ganization in each county. If an ani- the packing interests, We do not pro-Then they endeavored to enact a bill some of the activities of big business. nurse could be employed in case of packers or other big concerns, but we

A veterinary bill which prevented the and raw rock phosphate to secure the owner of live stock from administering maximum of production at the lowest first aid to his own animals, but requir- cost. Several years back a number of ed that one secure the services of a Illinois farmers secured an option on registered veterinarian, was killed by phosphate fields in Tennessee. Some our committee. These are samples of large concerns are now trying to get measures that our association kept hold of this phosphate land. So we are sending a committee of our organiza-The work, however, was not all neg- tion to Tennessee to investigate the ative. The committee was largely re- proposition. If this committee finds sponsible for putting some very good that the outlook is such as to warrant laws in effect. Chief among these is a the formation of a stock company, the statute that makes it lawful for farm- farmers will organize such a company, ers to market their produce coopera- put in grinders and furnish raw rock tively. This law also gives farmers phosphate to members of the associa-

These are some of the things we was going to sign it anyway, because At almost every turn there appears a under arrest for cooperating with oth- is to have this one big organization to ing farmers from securing the advan- it is to form an organization that has tages of cooperative selling and buy- a single problem in view. If you get Michigan farmers to understand the We also have the problem of revis- big idea about this work, I am sure ing our state constitution. We as farm you will have no difficulty in securing





CURTIS SERVICE BUREAU 2019 3019 S. Second St., Clinton, Ia.

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The makers of Culfis Woodwork guarantee complete satisfaction to its usere. "We're not satisfied unless you are."

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address, THE ECONOMY FEEDER CO., Box 556, New Washington, O.

FOR SALE by "Fertiland Farms," Five hun-wheat inspected by Michigan Crop Improvement Asso-ociation. Registration No. 9012. M. C. I. A. prices. Qual-ity good. Class I. Samples furnished prospective buyers. W. T. Bandeen. Mt. Pleasant, Mich.

Michigan A. C. Inspected RED ROCK Wheat. Grown from certified seed, Pure and free from smut, perfectly clean and free from weeds. Inspected by M. A. C. Price, iii bu. lots, \$3 per bu. sacks free. Best crop of wheat ever grown in our section of the state. The Jennings Farms, Balley, Mich. R. F. D. No. 1.

CULL BEANS FOR FEED Car lots or less. Ask for prices.

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DICKEY GLAZED TILE SILOS

"The Fruit Jar of the Field" Send for Catalog No. 9 before you buy a silo. W. S. DICKEY CLAY MFG. CO., MACOMB, ILL. ity, Mo. Chattanooga .Tenn.

PLAY the smokegame with Prince Albert if R. J. Reynolds Tob. Co. you're hunting for tobacco that will cheer your smoke-appetite! For, with Prince Albert, you've got a new idea on the pipe question that frees you from

Toppy red bags, tidy red tins, handsome pound and half-pound tin humidors—andthat classy, practical pound crystal glass humidor with sponge moistener top that keeps the tobacco in such perfect condi-

PRINCE ALBERT

Prince Albert is a pippin of a pipe tobacco; it certainly does beat the band! And, what you're going to find out pretty quick thousands of men discovered as long as ten years ago when P. A. started a smoke revolution!

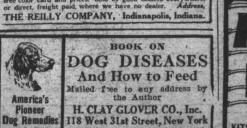
lot of smokefun that ever was!

stung tongue and dry throat worries! Made by our exclusive patented process, Prince Albert is free from bite and parch and hands you about the biggest

Get the idea that P. A. is simply everything that any man ever longed for in tobacco! You never will be willing to figure up the pleasure you've missed once you get that Prince Albert quality flavor and quality satisfaction! You'll talk kind words every time you fire up!

R. J. Reynolds Tobacco Company, Winston-Salem, N. C.





Agricultural Lime High calcium hydrated lime in 50 lb. paper bags, in callets of 20 tons or more. Delivered, price promptly on request. Northern Lime & Stone Co., Petoskey, Mich

POTATO BAGS sold direct grower at sale prices. Lincoln Bag Co., Springfield, Ill.

Mention The Michigan Farmer When Writing Advertisers

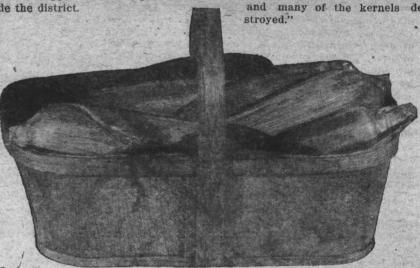


Corn Borer Dangerous Pest

HE European corn borer is an corn and fodder corn, but on celery, unwelcomed immigrant from the potatoes, beans, beets and several othland of war and famine. It is a er plants. In eastern Massachusetts dangerous pest. So alarmed over its are it has been especially destructive to rival on our shores are the authorities sweet corn, and if it should be allowed termination of the borer.

side the district.

and farmers that they have secured an to spread unchecked the great sweet appropriation of \$75,000 from the New corn industry of New England and York state legislature and congress New York would soon be destroyed. has been asked for an appropriation State Entomologist Felt reports that of one-half million dollars for the ex- "during field counts last year, federal and state agents found on a quarter of The corn borer made its first appear- an acre of sweet corn one hundred per ance in Massachusetts in 1917, and has cent of the ears infested, and in such already infested an area near Boston areas an average of forty-six caterpilof three hundred and twenty square lars to a plant. As many as 311 fullmiles. This area is now under strict grown caterpillars have been found in quarantine, and no corn can be ship- one hill of corn, and 117 in one plant. ped out of this district. Corn can be Badly affected stalks are honeycombed shipped from points outside the infest- and this causes them to break or to ed area through Boston to other points lodge. The ears may be blighted by beyond the quarantined district, but it the pests working in the supporting cannot be consigned to Boston and stalk, or the cob may be tunneled from there reshipped to other points out- top to bottom and from side to side and many of the kernels de-



A few weeks ago an infestation of Dr. Felt estimates that the general on the banks of the Hudson river far try.-E. E. R. below the present infestation.

In April the discovery of corn borers at Milford, Connecticut, led to investigations which led to knowledge A representative of the state entomolfields.

The coming of this dangerous pest region are slow to realize its destruc- brown bread, fruit cake, candy, etc. tive capacity. During a recent meetfrom the borer menace.

not only feeds on field corn, sweet amount of labor.

th borer was found in corn stubble prevalence of the cornstalk borer in covering an area of four hundred the fields of the United States would square miles near Schenectady, in the result in annual losses of a billion lower Mohawk valley. Four hundred dollars or more. This being true, the men employed by the New York state necessity for utilizing all the warring authorities are engaged in the work of machinery of the nation against the extermination in this area, but as the corn borer will be apparent to all. It infested fields are on the river flats it is a national menace, one of the most is feared that infested stalks may be destructive and dangerous enemies of carried down the river and deposited farmers that have come to this coun-

UTILIZING CULL APPLES.

(Continued from page 263). of a wide distribution in that vicinity, pour off any of the sediment. Fill the vessel only about half full as it foams ogist is assisting the Milford corn up when boiling. Add a level teaspoon growers in clearing up their infested of the lime of carbonate for the seven gallons of liquid and boil rapidly until These widely scattered infestations a temperature of 220 degrees is reachall developed within two years, indi- ed, or until it is about one-seventh of cate the rapidity with which the corn the original volume and the consistborers increase and their capacity for ency of maple syrup when cooled rapspreading over a wide range of terri- idly, and poured from a spoon. To insure clear syrup the cooling must be done slowly. A good way is to set the is a matter which concerns the farm- jars of syrup in a wash boiler of hot ers of the west fully as much as it water and allow the whole to cool. Use does those of New York and New Eng- this syrup like any other table syrup, land. It is exceedingly difficult to con- and as a flavoring adjunct. Also as a trol, and farmers even in the infested sauce for puddings and for making

Apple butter has long been a standing of farmers in Albany, at which the by as a staple food and table delicacy writer was present, State Entomolo- and merits a place in the diet of every gist E. P. Felt and other experts, family. A favorite home recipe is as spoke of the work being done to sup-follows: Boil three gallons of apple press the borer in Schenectady county, cider down to one and one-half gallons. and the need for greater effort on the Pare and quarter sufficient apples to part of the farmers whose fields were make three gallons. Pour over these infested. One of these farmers, how-sufficient additional cider to cover apever, said the blackbirds were doing ples well. After cooking until tender more damage in his fields than the run through colander, then add boiled corn borers, and he thought the state cider and boil down to desired thickcould better devote its energies to ex- ness. When nearly done add one and terminating blackbirds. It is evident one-half pints sugar and when done from the attitude of this farmer that flavor with one teaspoonful of allspice there is need for greater publicity in and one teaspoonful cinnamon. For regard to the extreme danger to crops making apple butter on a large scale, a steam apple butter cooker should be It has been found by investigations used. It makes a butter with the right in Massachusetts that the corn borer flavor quickly and with the very least



STATE GRADING AND PACKING LAW.

(Continued from page 283).

Provided, that nothing herein contained shall apply to the manufacture, sale, or shipment of climax baskets, baskets or other containers for small fruits, berries, and vegetables when intended for export to foreign countries when such climax baskets, baskets, baskets or other containers for small fruits, berries and vegetables accord with the specifications of the foreign purchasers or comply with the law of the country to which shipment is made or to be made.

353. Sec. 4. That the examination and test of climax baskets, baskets, or other containers for small fruits, berries, and vegetables, for the purpose of determining whether such baskets or other containers comply with the provisions of this act, shall be made by the Dairy and Food Department, and the Dairy and Food Commissioner shall establish and promulgate rules and regulations allowing such reasonable tolerances and variations as may be found necessary.

354. Sec. 5. That it shall be the duty of each prosecuting attorney, to whom satisfactory evidence of any violation of the act is presented, to cause appropriate proceedings to be commenced and prosecuted in the proper courts of the state for the enforcement of the penalties as in such case herein provided.

355. Sec. 6. That no dealer shall be prosecuted under the provisions of this act when he can establish a guaranty signed by the manufacturer, whole saler, jobber, or other party residing within the United States from whom such climax baskets, baskets, or other containers, as defined in this act, were purchased, to the effect that said climax baskets, baskets or other containers are correct within the meaning of this act. Said guaranty, to accord protection, shall contain the name and address of the party or parties making the sale of climax baskets, baskets or other containers to such dealer, and in such case said party or parties shall be amenable to the prosecutions, fines and other penalties which would at tach in due course to the dealer under the provisions of this act.

356. Sec. 7. That this act shall be in force and effect from and after the first day of November, 1917.

Table Grapes.

(Act No. 107, Public Acts, 1913). AN ACT to regulate the packing for shipment and sale of table grapes, and providing penalties for violation thereof.

212. Section 1. The people of the state of Michigan enact, no grapes that are not ripe, or are the fruit of unhealthy vines, or are for any reason unhealthy or in a state of decay shall be packed for shipment by any grower, packer or shipper in any package or basket of less than sixteen pounds capacity.

213. Sec. 2. Any person or persons found guilty of violating any of the provisions of this act, in any court of competent jurisdiction, shall be deemed guilty of a misdemeanor and shall be punished by a fine of not less than \$10 nor more than \$100, or by imprisonment in the county jail for not less than ten days nor more than ninety days, or by both such fine and imprisonment in the discretion of the court.

214. Sec. 3. It shall be the duty of the state dairy and food commissioner, his deputies and assistants, to enforce the provisions of this act.

Pear Psylla and Blight

Can Be Controlled by Fall Spraying with



"CCALECIDE" kills the adult Psylla, and, if sprayed before they lay their eggs, control is easy and effective. Therefore spray in Fall or early Winter.

And this same spraying will also control Blight Canker which is the source of infection for Fire Blight. No cutting-out is necessary. "SCALECIDE" meets every requirement without cutting or painting.

But don't expect to clean up your orchard in one season. Two or three years of faithful spraying with "SCALECIDE" will secure practical control of Pear Psylla and Blight, and invigorate your orchard. "'SCALECIDE' makes a tree outgrow its troubles."

A fruit grower near Buffalo, N.Y., who failed to control Pear Psylla with Lime-Sulfur, losing his entire crop in 1916, "became desperate" and tried two barrels of "SCALE-CIDE". In 1918 he wrote:

"We were delighted when June came to find no trace of Psylla nor any since, and, instead of sooty twigs, had the most beautiful foliage imaginable. In justice to your material, I think you ought to be in possession of these facts."

We recently visited several large orchards, embracing 150,000 trees of all varieties. Two years and a half ago, when we first saw these orchards, many of the trees seemed past redemption from Blight and Canker, but after three dormant sprayings with "SCALECIDE", they are now in perfect health and vigor, and loaded with fruit, while other orchards in the neighborhood are badly blighted.

We would like to give you more information about "SCALE-CIDE" and the names of these and other big men who are making money by using it. Write today for a copy of our guarantee and name of dealer near you. Address Dept.13

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Used in top groove only of pistons to control excess oil, with McQuay-

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bull calf, sired by our imported "EDGAR of DALMENY"

recently sold in Scotland at the Perth Bull Sale for the record price of 2,100 guineas, or \$10,584.00 in our money. This goes to show the quality of the

ABERDEEN ANGUS

that Mr. Scripps is breeding. He enjoys seeing good stock on "Wildwood" and believes that
THE BEST IS NONE TOO GOOD.

"Edgar of Dalmeny" won the Michigan Grand Championship last Septemeber at the Michigan State Fair and was a winner in his class at the Chicago International last December.

We have a few females with calves at foot and re-bred to "Edgar of Dalmeny" that Mr. Scripps has consented to sell to reduce the fast growing herd.

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

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Established in 1900. TYPE-QUALITY-BREEDING

The herd (tested annually) is absolutely free from tuberculosis. A few bulls (no females) for sale

WOODCOTE STOCK FARM,

Cloverly Angus Bred cows, heifers and bull calves of good breeding.
GEO. HATHAWAY & SON, Ovid, Mich.

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Young bulls of quality for sale, backed by generations of large producers. All tuberculin tested. Come and look them over.

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Registered Guernseys Choice May Rose Bull Calves—at prices you can afford to pay, M. WILLIAMS. North Adams, Mich.

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For Sale: Guernsey bull calf fawn and white, 10 months old, a beauty, Nancy's Sequel 56736; Sire, Haleyon Sequel 22326; Dam, Nancy's Anary & Anary & Holz, Dr. W. R. Baker, 1360 West Fort St. Detroit, Mich

Guernsey Bulls For Sale—St. Austell Dal-ton, 43(28; born December, 1915, Sired by Don Diavolo of Linda Vista; Dam Lang-water Suffragette, A. R. 2346 Class A 585.58 butterfat. Also Niavara 2nde Duke, 55564; born December, 1917, F. E "Robson, Room 307 M.C.R.R. Depot Bldg, Detroit.

Reg. Guernseys Bull and cow. Also eight highgrade cows and heifers. Price right. C. W. Comfort, Engadine, Mich.

Reg. Guernseys For Sale—3 cows, due this fall, yearling bull. Eugene Wilcox, Bangor, Mich.

\$75 gets 1½ mo. old gdson Maplecrest Korn. Heng. and 27 lb. daughter of Johan Heng. Lad. and 18:48 lb-daughter of Cal. Jane Paul A. Dam is my best milk. er. Terms. M. L. McLAULIN, Redford, Michigan.



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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. ancestors, Dam's records up to 30 lbs. Write for pedigrees and quotations, stating about age desired.

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The young bulls we have for sale are backed up by many generations of large producers. Buy one of these bulls, and give your herd a "push". Full descriptions, prices, etc. on request.

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"Winwood Herd"

Holstein - Friesian Cattle FLINT MAPLECREST BOY

His sire is Maplecrest Korndyke Hengerveld. His three nearest dams each over 30 lbs. of butter in 7 days. His dam and granddam both made over 1232 lbs. of butter in one year. It is the yearly cow we are looking for to deliver the goods. Flint Maplecrest Boy's Dam is Gluck Vassar Bell, 30.37 lbs. of butter in 7 days and 121 lbs. in 30 days. Her butter fat test is 5.27. We have a few choice bull calves about ready for service and one or two ready. Remember we are breeders and not dealers in cattle. Our price is right, breeding considered. Write us your wants, or come and look this herd over before you buy, and see for yourself. You will be glad you came. Herd tuberculin tested.

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Herd Headed by Segis Pontiac De Nijlander

A 32 lb. grandson of Michigan's great 35 lb. champion cow. Pontiac De Nijlander. His dam. Oak Valley Korndyke Beets Segis Fan, 32.06, also a Michigan prize winner last year and a prize winner last year and a prize winner last year. He not a segistary of the seg

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No more bull calves to offer until next fall. Place your order for one from next fall's crop. My herd is on the state and federal accredited herd list.

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LIGHT colored Reg. Holstein Bull 15 mo. old, Surbreeder. 30 lb. Pontiac breeding. Priced to sell. B. B. Reavey, Akron, Michigan.

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At Maple Avenue Stock Farm are under Goverment supervision. The entire herd have just been tuberculing tested and not one reactor. A good place to buy that bull you are looking for, and I have two very fine, richly bred, and splendid individuals ready for any amount of service. I want to answer any question you may ask about them.

I, E CONNELL, Fayette, Ohio

BULL CALF; solid color, black tongue a Sired by Star's Ogallala Chief No. 130711, a son of Burley and the service of the se

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You buy a Jersey bull with the hope that his heifers will make better cows than their dams. The surest way to accomplish this is to buy a bull sired by a tested sire and a tested dam. After this it is desirable to get a bull of popular blood lines and as typey as possible. Last but not least buy a bull from a breeder whose stanards of busines ethics are beyond question.

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LILLIE Farmstead Jerseys, A few heifers bred to treshen this fall, also yearling heifers; and two of three R. of M. cows, Colon C. Lillie, Coopersville, Mich.

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

Maple Lane B. of M. Jersey herd, Bull and heifer calves sired by a nephew the new World's Champion, Sophie's Agnes, Also R. C. Red eggs and chix.

The Wildwood Jersey Farm Bulls for sale by Majesty's Oxford Fox 134214 and Em-inent Ladys Majesty 150934, and out of R. of M. Ma-jesty dams. ALVIN BALDEN, Capac, Mich.

For Sale Registered Jersey bulls ready SMITH & PARKER, R. 4, Howell, Mich.

JERSEYS FOR SALE

Two young cows due to freshen in Oct., one bred heif-er due to freshen in Dec., two heifer calves dropped last Dec. All are recorded or eligible. No balls or bull calves at present. Will ship O. O. D. Newman's Stock Farm, Marlette, Mich. R. No. I.

deretords

20 cows and heifers for sale.

ALLEN BROS., Paw Paw, Mich.

Herefords Polled and Horned blood lines embrace Fairfax, Polled Perfection and Prime Lad 9th breeding, Prices reasonable, COLE & GARDNER, Hudson, Mich.

Herefords Bob Fairfax 494027 at head of herd. Stock for sale, either sex, polled or horned, any age. Priced right. EARL O. McCARTY, Sec'y. H. B. Ass'n. Bad Axe, Mich.

Harwood's White Faces

Owing to labor shortage will sell one half my herd, consisting of 120 head of Reg. Herefords, yearling and two year old heifers, cows with calf at side, rebred to ton bull. Ten short yearling bulls. Priced right for quick sale.

JAY HARWOOD, -:

Hereford Bulls Just two yearlings left. Herd-header quality. You will buy on sight at the price. E.J. Taylor, Fremont, Mich.

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Registered bulls, cows and heifers. Good Scotch and Scotch-Topped for sale. In prime condition. Modern sanitary equipment. Herd under state and federal supervision. Farm 10 minutes from N. F. O. depot, I hour from Toledo, Ohlò. Automobile meets all trains. Write

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Shorthorn Cattle of both Sex for Sale W. W. KNAPP, Howell. Michigan.

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HOME OF THE MICH. CHAMPIONS
We offer for sale a few good dual purpose cows with calves at foot. Also two three year old bulls suitable for range purposes, We invite inspection.
C. H. PRESCOTT & SONS,
Office at Tawas City, Mich. Herds at Prescott, Mich.

Shorthorns Scotch and Scotch Topped cows and heif-write W. B. McQUILLAN, R.7. Howell, Mich.

For Sale Shorthorns of Quality Scotch and Hope, Avondale, Maxwaiton Sulton and White Hall Sulton, Model Type, by the Oscola Co. Shorthorn Breeders Ass. John Schmidt, Sec. Reed City, Mich.

Scotch Topped Cows For Sale, Bred by the Mich. M. V. Butler, Williamston, Mich.

Shorthorns New list, 27 bulls; 28 females. Feb. list all sold. Central Mich Shorthorn Breeders' Assn., Oscar Skinner, Secy., Gowen, Mich.

The and females for sale. Ask about them.

L. H. LEONARD Sec., Caledonia, Mich.

Milking Shorthorns of best Bates breeding and O. I. C. swine. Bulls for sale 1 mo. to 1 E. H. KURTZ, Mason, Mich.

SHORTHORNS A young Mary cow and ale. Louis Bubbitt, Williamston, Mich

Meadow Hills Shorthorns—For sale females of all ages, including one aged cow at bargain; also one roan bull ready for service. Geo. D. Doster, Doster, Mich. MILKING SHORTHORNS. Clay bull calves. Davidson and Hall, Tecumseh, Mich. on and Hall, Tech

Special Offer Shorthorns— Gows \$250 to \$300.
Wm. J. Bell, Rose City, Mich.

Red Polled Bulls For Sale

HOGS

Registered Berkshire Boars; ready for service. A few gilts and sows bred for May and June farrow. Also spring pigs. CHASE STOCK FARM, Mariette, Mich.

DUROC--JERSEYS E. D. HEYDENBERK Wayland, Mich.

Attention Breeders and Farmers Now is the that Duroc Boar for fall service. We have some Corkers. March pigs will weigh 100 lbs. July lst. Inspection Solicited. Prices very reasonable. RUSH BROS., Oakwood Farm, Romeo, Michigan.

DUROC JERSEYS

Fall pigs either sex also spring pigs pairs not akin Sired by the Grand Champion and Junior Champion boars. F. J. DRODT, B. 1, Monroe, Mich

DUROC SOWS

sired by Walt's King 92949, the sire of 1st. prize winners last year, and bred to Orion's Fancy King the real big type Duroc. NEWTON BARNHART, St. Johns, Mich,

DUROC JERSEYS CAREY U. EDMUNDS, Hastings, Mich.

Registered Duroc Boars Ve have a choice lot of spring boars, sired by Michigan therry Col. No. 118479. Ira Jackson selected this boar to lead our herd. Our prices are within every farmers each. The Jennings Farms, Bailey, Mich., R. F. D. No. 1

DUROC Jersey spring boars sired by Orion Cherry King Col. 2nd. with size and feeding qualities. W. C. Taylor, Milan, Michigan,

8734 Hampshires recorded from Jan. 1 to Apr. 1. '19.
Did you get one? Boar pigs only for sale now.
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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. I. O. boar assisted by C. O. Schoolmaster, Grand Champion boar of Michigan, New York and Tennessee state fairs. Also, C. O. Giant Buster, undefeated Sonic boar pig wherever shown and terand Champion of Oklahoma state fair. Get our catalogue of Grandell's prize hogs, Cass City, Michigan.

O.I.C. One very choice 9 months old boar and (68928), Glenwood Stock Farm, Zeeland, Mich.

O. I. C's. Big type boars of April and May G. P. Andrews, Dansville, Mich.

Shadowland Farm

O. I. C.'s

Bred Gilts 200 to 300 lbs, from prize winning stock. A few fall year-lings and 2 yr. old sows, big type, growthy boars of all ages, guaranteed as breeders. Everything shipped C. O. D. Express paid and registered in buyer's name. J. CARL JEWETT, Mason, Mich.

O. I. C. and Chester White Swine

Strictly Big Type with quality. Spring pigs of Murch and April farrow. A choice lot of boars. Will only spare a few more gilts at present. Will ship C. O. D. and record them free. Newman's Stock Farm. Marlette, Mich. R. No. 1.

O. I. C's. Bred gilts all sold. Plenty of spring pigs good enough to ship C. U. D. F. O. BURGESS, R. 3, Mason, Mich.

O. I. C's One very good yearling boar, and this spring pigs to offer, registered free. ½ mile west of Depot. Citizens Phone 124.

OTTO B. SCHULZE, Nashville, Mich.

O. I. C's. One extra good fall boar and spring pigs for sale. Stock registered free and guaranteed satisfactory. John C. Wilk, B. 2 Alma, Mich.

O. I. C. 20 Choice Young Boars and a few fine gilts.

Olover Leaf Stock Farm, R. 1, Monroe, Mich.



HAVE started thousands of breeders on the road to my closes. I can help you. I want to place one hog from my great herd in every community where I am not already represented by these sine early developers—ready for market at any months old. Write for my plan—"More Money from Hegs." 6. 8. BENYAMIN, R. F. D. 10. Portland, Michigan

Big Type Poland Chinas

Sired by Smooth Mastodon a son of A's Mastodon and litter mate to the Illinois Grand Champion. Boar pigs and gilts, bred sows from above sire and Big Bob dams, the big boned, deep, long bodied kind at farmer's prices.

Wah-be-me-me Farms White Pigeon, Michigan,

For 25 Years We have been breeding Big Type Poland China hogs of the most approved blood lines. Our new herd boar "Michigan Buster" is a mighty good son of the great "Giant Buster" dam "Mouw's Miss Queen 2." Some breeding! Litter of 14. We are offering some sows bred for fall farrow.

LARGE Type P. C. the largest in Mich. Spring boars I now ready to ship. Boars for the breeders and boars for the farmers. Come and see the real large type with quality. Free livery from Farma furnished visitors. Look up my exhibit at the Great Jackson Co. Fair, Sept. 8th. to 12th, expenses paid if not as advertized. W. E. Livingston, Parma, Mich.

Big Type Poland Chinas with quality Pigs for out of Upsome Matron 240346, and by Upsome Lad 90565, out of Eureka Giantess 241026. New herd header B's Bonanza Joe 100922, by Bower's Mammoth Joo 71441. G. A. BAUMGARDNER, R. 2. Middleville, Mich.

L. S. P. C. Boars all sold. A few nice gilts bred for fall farrow.
H. O. SWARTZ, Schoolcraft, Michigan, MICH. Champion herd of Big Type P.C. Nothing for sale but fall pigs; orders booked for spring pigs.
E. R. LEONARD, St. Louis, Mich.

Fall gilt will farrow in Sept. \$100, and yearling sow that had 9 pigs apring will farrow in Sept. \$150. C. E. Garnant, Eaton Rapids, Mich.

THE FARMER AND THE H. C. OF L.

(Continued from page 264). whether he will sell his corn as beef or as corn. Now as the time, silos must be filled if feeding operations are to be engaged in. Now is the time the farm woman determines the size of next year's flock of poultry. Now is the time when the farmer plans the next year's farm acreage. In short, now is the season when the efficient farmer plans his whole 1920 program.

Right now, the American farmer holds in his hands the power to determine quite definitely the size of next years crop of wheat, milk, meat, cheese, butter, poultry, eggs, in short, all foodstuffs, and with that, to determine whether or not the world's table will be abundantly supplied next year.

Recognize Responsibility.

The American farmer, individually and in his organizations, recognizes his responsibility in this matter-provided, however, that every other good American citizen or foreigner within our borders will let the scale drop from his own eyes and witness that he also has an individual and an organized responsibility that cannot be shifted. The American farmer does not sympathize with artificial or political quackery which befogs the real issues, but is impotent to give even passing relief.

The American farmer is willing to meet the issue squarely. If prices cut to the bone all along the line-farm products, wages, manufactured goods, rent, wholesalers and retailers' profits -will bring the desired result, which he rather doubts, he will go as far along that road as any, but he will not go alone. Let the whole brotherhood of man go the full route. If increased production will clarify the situation, the American farmer will jointly with all of his fellow citizens, buckle his belt for a most strenuous campaign of production, but here again he is determined that he will not work alone.

If capitalistic monopoly enough food produced that it may be feasted, if organized labor wants enough food produced that it may be fed, if the do-nothing dawdles want enough food production so that they may occasionally eat, let them stand forth now at this time, when the farmer must determine his 1920 food production program and declare by deeds cutting out profiteering in goods and wages, going honestly to the business of preparing and purveying the necessities of life, going honestly to the job of doing a full day's work for a full day's pay-their willingness to cooperate. Failure of these forces to do this now will be a boomerang that ere the next cycle of the seasons will effect a condition of living now undreamed of.

MECOSTA FARMERS BUY CATTLE IN ONTARIO.

THIRTY-FIVE head of registered Shorthorn cattle were recently purchased for distribution among farmers of Mecosta county. Jacob Klinefelter, supervisor of Colfax township, R. W. Wigle, cashier of the Big Rapids Savings Bank, and Paul H. Smith, County Agricultural Agent for Mecosta County, were selected as a purchasing committee and made the purchase in the vicinity of Myrtle Station, Ontario. The car was made up partly of eightmonth-old heifers which will be used' for Junior Calf Club work, a number of two-year-old heifers, a few threeyear-old cows, and three young bulls. The cattle arrived in Big Rapids, Sunday, August 24, and were exhibited at the Fair Grounds until Friday, August 29, at which time they were distributed among farmers from nearly every part of the county.

Vote according to the dictates of your own conscience, but cross-question conscience pretty closely before you go into the voting booth.



You buy a tractor to make money. The more money a tractor or implement will make for you the more you are willing to pay

Consider then what a tractor will make for you in dollars and cents how much man power it saves, how many horses it displaces, and the more and better work it will do. That is the way to buy a tractor—the purchase price alone should not influence you.

When you buy a Moline-Universal Tractor you get one of the finest power plants on wheels. You get a completely equipped tractor, with self starter, electric governor, electric lights, belt pulley, power lift gang plow-everything you need.

The Moline Line of Implements

You not only buy a quality tractor, but a complete system of power farming. The Moline-Universal enables you to do all farm work including cultivating. One man operates both tractor and implement from the seat of the implement.

Actual figures from over 200 farms in 37 states show that the Moline System of Power farming saves an average of $1\frac{1}{3}$ men and 5 horses per farm.

> Figure what such a saving will mean to you. Considered from this point of view the Moline-Universal is the lowest priced tractor made. Thousands of farm ers are proving this every day. Write us today for full information. It's free on request.

Moline Plow Company, Moline, Ill.

New Orleans

Poughkeepsie Baltimore Los Angeles Indianapolis

Stockton Spokane Portland Salt Lake City Columbus, Ohio Denver Kansas City Omaha Minneapolis Jackson, Mich.

Sioux Falls Des Moines Bloomington, III.

SOPHIE'S AGNES JUST BROKE THE WORLD'S HER GRAIN RATION AS ONLY HIGH-PRO BUTTERFAT RECORD

Write to H. CHRYSTAL, Selling Representative, 909 ford Building, Detroit,

Gall Cure That is GUARANTEED

Bickmore's Gall Cure is guaranteed to do all we claim for it. If it doesn't, you get your money back, Successfully used on over a million horse seach year all over the world! Cures while the horse works! Wonderful for collar and saddle galls, broken skin, rope burns, sore shoulder, mange, and other skin diseases, bruises, cuts, chafes, mud scalds, grease heel, chapped teats on cows and other wounds on horses, cattle, pigs, and poultry. "Your Gall Cure," says C. A. Tripp, of Marshfield, Wis, "is wonderful stuff. Had a mare—could not get her shoulder healed all summer. Got a small box of Bickmore's and did not use it all up before her shoulder, was healed. Worked her every day in the meantime. Ask for Bickmore's to gad loure store. Accept no substitute. Water for the 'Old Gray Hotse' trademark—for 24 years the for the ''Old Gray Hotse' trademark—for 24 years the for the ''Old Gray Hotse' trademark—for 24 years the for the ''Old Gray Hotse' trademark—for 24 years the for the ''Old Gray Hotse' trademark—for 24 years the for the ''Old Gray Hotse' trademark—for 24 years the for the ''Old Gray Hotse' trademark—for 24 years the for the ''Old Gray Hotse' trademark—for 24 years the for the ''Old Gray Hotse' trademark—for 24 years the for the ''Old Gray Hotse' trademark—for 24 years the for the ''Old Gray Hotse' trademark—for 24 years the for the ''Old Gray Hotse' trademark—for 24 years the for the ''Old Gray Hotse' trademark—for 24 years the for the ''Old Gray Hotse' trademark—for 24 years the for the ''Old Gray Hotse' trademark—for 24 years the for the ''Old Gray Hotse' trademark—for 24 years the for the ''Old Gray Hotse' trademark—for 24 years the for the ''Old Gray Hotse' trademark—for 24 years the for the ''Old Gray Hotse' trademark—for 24 years the form the ''Old Gray Hotse' trademark—for 24 years the form the ''Old Gray Hotse' trademark—for 24 years the form the ''Old Gray Hotse' trademark—for 24 years the form the ''Old Gray Hotse' trademark—for 24 years the ''Old Gray Hotse' trademar

HARVESTING GRAIN

A Shoe Boil, Capped Hock or Bursitis ABSORBINE

will reduce them and leave no blemishes. Stops lameness promptly. Does not blister or remove the hair, and horse can be worked. \$2.50 a bottle delivered. Book 6 R free.

ABSORBINE, JR., for mankind, the antiseptic liniment for Boils, Bruises, Sores, Swellings, Varicose Veins. Allays Pain and Inflammation. Price \$1.25 a bottle at druggists or delivered. Will tell you more if you write.

W.F.YOUNG, 186., 268 temple \$1., Springfield, Macs.

HOGS

Big Type P. C. Spring Pigs her sex. A. A. WOOD & SON, Saline, M

B. T. P. C. Some of the best males I ever raised.
October Boars extra good. April pigs weight 100
Price resonable. JOHN D. WILEY, Schoolcraft, Mi

Two gilts for sale, sired by C. A. King Joe. Dam is sired by Great Big Half Ton, by Big Half Ton and out of a Disher's Giant Sow. (Breeding.) Bred to Monster Big Bob by Luken's Big Bob (same breeding as the Grand Champion of the World, Caldwell's Big Bob). A very valuable litter to possess. Fall pigs farrowing now. Book orders early. C. A. Boone, Blanchard, Mich.

YORKSHIRES FOR SALE Gilts bred for October farrowing. WATERMAN & WATERMAN. Meadowland Farm, Ann Arbor, Mich.

Fairview Stock Farms Tamworths. Begistere apring pigs for sale, either sex, from massive ancesters. W. H. Warner, Concord, Mich.

SHEEP

HAMPSHIRES

One of the best bred flocks in America. Home of the International Champion ewe of 1918. Rams of all ages for sale. Write me your wants or come and see them. Harley R. Emmons, Elsie, Mich.

Additional Stock Ads on Page 295



FIRST EDITION.

The markets in this edition were revised and corrected on Tuesday after-noon, September 2.

WHEAT.

Threshing returns continue to disappoint producers. In Illinois the farmers now predict that the average yield will not exceed 17 bushels per acre. Very little plowing has been done for the new grop, and in a large portion of the winter wheat area there is too little maisture to prepare a serial second little moisture to prepare a satisfac-tory seed bed. Since a week ago the United States Grain Corporation has announced a change of prices for the lower grades of wheat. Practically all country elevators are full of wheat. This is partly due to a shortage of cars for moving the grain to marketing centers. Following are the quotations at

No. 1	red\$2.27	
	mixed 2.25	
	white 2.25	
	red 2.24	
	red 2.20	

CORN.

At the opening sessions of the corn markets this week trade took a bullish turn following a reduction in estimates on the yield in important corn growing states. A much smaller crop than was expected a month ago is now predicted. The chief bearish news has been the decline in hog prices. The Chicago market is quoting September corn at \$1.77½ and December at \$1.37. Following are the Detroit quotations:

No.	3	corn\$1.96
		yellow 2.00
		yellow 1.98
No.	5	yellow 1.93

OATS.

Returns from threshing show yields that tally up well with earlier expectations on the oat ctrop. For a month or more back farmers have figured on a small yield of this cereal. In the market prices are generally following those of corn. On Tuesday the trade opened a fraction higher than Saturday, and quotations continued to ascend. Following are prices quoted at Detroit:

BUFFALO.

Hog prices ruled from 25@50c higher on this market today. Lambs and eval calves were steady, while cattle or on this market today. Lambs and veal calves were on a weak basis.

DETROIT

Cattle.

Market dull. All grades 25c lower than Monday, and 75c lower than last week's close.

No. 2	white	81
No. 3	white	801/2
		79½
No. 3	white	(new)76½

RYE.

Receipts at country elevators are increasing, while prices have weakened, being quoted at \$1.40 for cash No. 2 on the local market.

BEANS.

The bean market continues light and steady. Lacking any specula-tive interest and export demand, the dealers have very little to do just now. Quotations on the various markets do not represent actual sales in most casnot represent actual sales in most cases. In New York choice pea beans are quoted at \$8.50; common to fair \$7@8.25; medium choice \$8.50; red kidneys choice \$13.50@14. The trade is slow at Chicago, where the market is feeling the influence of the fight on the high cost of living. Hand-picked pea beans, choice to fancy are quoted there at \$8.75@9; do fair to good \$8@8.50; red kidneys \$11.50@12. Detroit's market is inactive and easy, with prices steady to \$8.10 per cwt, for immediate and prompt shipment.

Prices show a firmer tendency with the demand good and supplies coming in moderately heavy. Early Ohios are selling at \$3 per cwt. for field run. On the Chicago market the demand and movement is slow with the market unsettled and prices steady; the Early Ohios field run are selling there at Ohios, field run, are selling there at \$2.40@2.60 per cwt. The Pittsburgh market is in a similar position, having liberal supplies.

BUTTER.

A firm, active market with prices working gradually to a higher level ob-tains in the majority of our large cities. The greatest advance is seen in prices for top goods. Lower grades have moved upward only a fraction of a cent. At Detroit there is a fair demand with the trade firmer at 52@ 52½c for fresh creamery firsts. No new export orders are reported though there has been further inquiry from various European countries for American buttern ican butter.

ing, with clover selling especially well. Quotations are: No. 1 timothy \$33.50 cheese in bond. The market, however, is developing a firmer tone, and in this country increased 15 per cent over the amount used in June, and 21 showing more confidence in present prices by purchasing liberally for near future wants. At Detroit Michigan firm and and movement is slow with the market unsettled and prices steady; the Ferly control of the consumption of wool in this country increased 15 per cent over the amount used in June, and 21 per cent over that used in May.

DETROIT CITY MARKET

Apples and potatoes are offered more plentifully on the city markets, with prices declining. The best potatoes are now selling at \$2.50 a bushel, and movement is slow with the market port business is reported. port business is reported.

No important change is reported in this market. The quality of current receipts shows a somewhat larger proportion of good eggs. The demand for fresh stock is growing apace and more of storage stock is being used than a week ago. At Detroit fresh eggs are jobbing at 43½@48c per dozen. In New York the western fresh gathered whites are quoted at 50@65c.

WOOL

The big buyers of wool are already finding that the supply of good grades of wool are inadequate for the needs of the coming year. Consequently they are scouring the world for supplies to supplement the home stores. It is now learned that the expertation of wool CHEESE. learned that the exportation of wool In the public warehouses of New from Australia to the United States York, Chicago, Boston and Philadelphia, there is a rapidly increased accumulation of cheese. This may be 100,000 pounds of Ohio half-blood

Apples and potatoes are offered more plentifully on the city markets, with prices declining. The best potatoes are now selling at \$2.50 a bushel, and small sizes at \$2; plums are more abundant at \$3@4 per bushel, while peaches and pears are getting scarce, the former selling at \$2.50@4, and the pears at \$2@4; apples bring \$2@2.50 per bushel; cabbage 75c@\$1.25; onions \$2@2.50; peppers \$1.50; summer squash 50c; tomatoes \$1@1.25; corn 12@20c per dozen; grapes 25@30c for 3-lb. basket; hens 33c per lb; springers 32@35c; fresh country eggs 48c; butter 55@60c. butter 55@60c

GRAND RAPIDS

'Wholesale egg dealers report many cases received last week which upon being candled show shrinkage as high being candled show shrinkage as high as two dozen per case, indicating long holding. During the war government regulations fixed penalties for marketing stale eggs which reduced the shrinkage. These regulations ended with the war and producers have returned to their old practice. Reports from many of the large potato raising counties in western Michigan are that the little leaf hopper is doing great damage to the late crop. They cause the leaves to curl and turn brown at the tips and edges, causing what is termed tip burn. The M. A. C. is sending out a recipe for control of the insect. During the month of August sect. During the month of August there was a drop in the price of green there was a drop in the price of green hides of 15c per pound in this market, or 20 per cent. Prices of farm products, to growers, the past week were as follows: Potatoes \$2@2.50 per bu; hay \$30 per ton; apples 75c@\$1.50 per bushel; grapes \$2.50@3 per bushel; comatoes \$1@1.25 per bushel; eggs 41c; No. 1 dairy butter 45c; pears \$1.50@2.50 per bushel; peaches \$3@3.50 per bushel; oats 75c per bushel; rye \$1.30 per bushel; white cabbage 75c per bu; osage melons \$1.50@2.25 per bushel; hubbard squash 3c per pound; broilers 24c per pound live weight; plums at \$2.50 per bushel.

Live Stock Market Service

Reports for Tuesday, September 2nd BUFFALO.

Market dull. All grad	es 25c le	ower
than Monday, and 75c lov	wer than	last
week's close.		
Best heavy steers	\$12.50@	13.00
Best handy wt bu steers.	10.25@	10.75
Mixed steers and heifers		9.75
Handy light butchers		8.00
Light butchers		7.00
Best cows	OFAC	8.75
Butcher cows		7.75
Cutters	COFO	
Canners	FFF	6.00
Best heavy bulls		8.50
Bologna bulls		8.00
Stock bulls		
Feeders		
Stockers		
Milkers and springers	\$2000 TENEDONE STATE OF THE STA	125
Veal Calves.		
Market 50c lower.		
Deal Rec out lower.	222 00@5	22 50

Other grades	10.00@18.00
Sheep and	Lambs.
Market dull; 25c	lower.
Best lambs	\$13.00@13.75
Fair lambs	$\dots 11.00@12.50$
Light to common	8.00@10.00

Fair to good shee				@ 8.50 @ 6.00
Market steady	to	25c	lower;	heavy
grades very dull.			8	18.50

choice and prime \$15.85@18; do medium and good \$11.50@15.85; do common \$9.50@11.50; light weight 1100 lbs down, good and choice at \$13.75@17.50; do common and medium \$9.25@18.75; butcher cattle, neifers, common, medium, good and choice \$6.50@13; bulls, bologna and choice \$6.50@13; bulls, bologna and beef \$6@9.25; do canner steers at \$6@9.25; veal calves, light and handyweight, medium, good and choice at \$10.50@20.25; feeder steers, common, medium, good and choice \$6.75@10.25; stocker steers, common, medium, good and choice \$6.75@10.25; choice and prime \$15.85@18; do medimedium, good and choice \$6.75@10.25; stocker steers, common, medium, good and choice \$6.50@8; stocker cows and heifers, common, medium, good and choice \$8@10; stocker calves, common medium, good and choice \$11@15.75; western range cattle, beef steers, medium, good and choice \$8@12.75.

Sheep and Lambs. Estimated receipts today are 32,000. Native and western lambs are steady. Sheep steady to lower; feeders 25@ 50c lower. Lambs 84 lbs down, medium, good, choice and prime at \$12@ um, good, choice and prime at \$12@ 15.25; do culls and common at \$7.50@ 11.50; spring lambs, medium, good, choice and prime \$10@11; ewes, medi-um, good and choice \$7.25@8.50; do, culls and common \$2.50@6.50; breed-ing ewes, full mouths to yearlings at \$8.25@14.50; yearling wethers, medi-um, good and choice \$12.25@14.

BUFFALO. Monday, September 1, 1919.

beans, choice to fancy are quoted there at \$8.75@3; do fair to good \$8.08.50; red kidneys \$11.50@12. Detroit's market is inactive and easy, with prices steady to \$8.10 per cwt, for immediate and prompt shipment.

Hogs.

The feed market shows no change, and the Detroit quotations to jobbers are: Bran \$47; standard middlings \$64; coarse corn and oat chop \$63 per ton in 100-lb. sacks.

SEEDS.

In Toledo prime cash cloverseed is quoted at \$29.75; October at 29.90; rime cash alsike \$29.75; October at 29.90; rime cash alsike \$29.75; October at 29.90; rime cash alsike \$29.75; October at 29.90; timothy \$5.50.

**Consumers of hay are having difficulty in satisfying their wants. Deroit prices are unchanged and choice \$16.91.85.00. The Detroit market is improved and choice \$16.91.85.00. The Detroit market is consumers of hay are having difficulty in satisfying their wants. Deroit prices are unchanged as follows: No. 1 timothy \$31.50@32: standard at \$20.00. The market is improved by the control of th Cattle.

NEWS OF THE WEEK.

(Continued from page 258). Monday, September 1.

Monday, September 1.

GENERAL PERSHING sails from France for the United States.—
President Wilson announces that he will call a conference of capital and labor to put the whole question of wages on a different footing.—The wife of President Carranza, of Mexico, reaches the border town of Eagles Pass, preparatory to making a tour of the United States.—Munich, Bavaria, is under martial law.—Czecho-Sloviaka United States.—Munich, Bavaria, is under martial law.—Czecho-Sloviaka is preparing to go to war against Poland.—A threshing rig explodes near Carson City, Mich., burning machine and barn and scorching the crew.—Seven persons are dead at Alliance, Ohio, as a result of a private club dinger.

Tuesday, September 2.

ester, New York, has been taken over save feed for more worthy tattle and by a new organization known as the sheep but will add hides to the leather supply and increase meat stocks.

Irondequoit Fruit Juice Company, capitalized at \$150,000. The wine company was originally organized in 1832 are slaughtered for the preparation or and put out vineyards on the slopes food products for transportation or that rise from Irondequoit Bay. For sale in interstate or foreign commerce years the company has supplied retail must be federally inspected under the demand for high quality stock. In organized are slaughtered for transportation or that rise from Irondequoit Bay. For sale in interstate or foreign commerce years the company has supplied retail must be federally inspected under the must be federally inspected under the export trade must be inspected. The came evident to the managers that slaughter of horses and the preparation of the union. As early as 1909, it because of the embargo of some time ago. The quality of the stock being received is slightly improved but as yet dealers find it difficult to meet the demand for high quality stock. In organized to get better stock many dealers have resorted to the use of storage eggs during the week. The market can be said to be firm and the price tendency has been slightly upward during the week. Quotations are: Firsts prohibition was only a matter of time. tion and handling of horse meat must be conducted in establishments septhe outgrowth of this start. In 1916, the first wine grapes, some of them ucts must be conspicuously labeled or set seventy-five years ago, were pulled. Since then this change to other product," and must bear the statement kinds of grapes has been steadily going forward and the re-planting.

Horse meat or horse-meat products must be conspicuously labeled or lows: Spring chickens 33@35c; fowls 33@34c; old roosters 22c; ducks 30c; geese 20c. completed this spring.

grape business, is the information that slaughtered, will cause it to be conthe Grimley packing house in the Lake demned as food. Keuka district, which has been closed for several years, will be reopened this for the new regulations is that many

York the roadside market is a new development of the past two or three pretentious with a fine display of fruit, Agent, Cheboygan, Mich. vegetables and eggs, and an attendant

TO EXPORT HORSE MEAT.

To open up the channels of trade for some of the inferior horses in this country that do not pay for their keep, and to increase the meat supply in some of the larger cities in the United States and abroad where horse meat is used for human food, the United States Department of Agriculture is authorized by congress to inspect horse meat and horse-meat products.

The amendment to the regulations governing meat inspection by the Department was passed by congress on July 24 with an appropriation of \$100,-000 to carry on the work during the fiscal year ending June 30, 1920.

While it is expected that as a result of this amendment inferior horses throughout the country will be slaughtered for human food, it will open a market especially for the small horses (many of them wild) on the western

by a new organization known as the sheep but will add hides to the leather

prohibition was only a matter of time. tion and handling of horse meat must prohibition was only a matter of time. It is the conducted in establishments sep- 55@56c.

The manufacture of grape juice was be conducted in establishments sep- 55@56c.

Poultry.—Receipts have been heavy problem of the conducted from those in which other ani-

ing forward and the re-planting was U. S. Department of Agriculture." The regulations list a number of horse Reflecting the changed policy in the diseases which, if found in any animal

One of the most important reasons

A LONG the main traveled highways ious to have a tile manufacturing plant feed two or three times a day and of Niagara county in Western New located in their county. Much tile turn her on grass as soon as possible. years. On a recent trip through this They have good clay for manufactur-feed

pretentious with a line display of truit, vegetables and eggs, and an attendant in charge. Others consisted only of a few baskets of tomatoes or fruit with a "for sale" sign and the price tacked to a post.

The possibilities in the roadside market are limited only by the location of the farm, and the ability of the farmer to produce and display attractively those good things of the farm that meet the requirements of the city consumer. Every year more town folks are getting the habit of running out into to the country in their automobiles and buying their vegetables, fruit, poultry and egg supplies direct from the farmer. It is a trade worth cultivating.

E. E. R.

NEW YORK PRODUCE MARKET.

Overheated Black Mare.—I have to coverheated black mare that seems to be lack mare. It is suell to keep in mind that the horse which becomes over-heated to this mare work; furthermore, black-colored horse en over stand the heat as well as the form on summer. Every year more town folks with the country inquiries from exporters have led Later on it broke open in several placmany to feel that we may expect some es. I was inclined to believe it a bee active export business soon. The market has been very active and strong tended an auction sale of cows lately throughout the week and the price of butter has advanced one and a half three good teats. Is this caused by cents since last Saturday. High quality butter continues scarce and is eagerly purchased whenever any does arrive. The price advance is not affecting the under-grades to the same degree as the higher quality stock. However, there is a somewhat stronger demand for under-grade stock than has been in evidence for some weeks heretofore. Established quotations at the inquiries from exporters have led Lamany to feel that we may expect some es. been in evidence for some weeks here-tofore. Established quotations at the close on Friday were as follows: Extras 57c; higher scoring than extras 57½@58c; firsts 53@56½c; seconds 50@52½c.

Cheese.—The cheese market Cheese.—The cheese market has been active and a stronger tone has developed during the week. Local demand has been strong and large orders have been placed by wholesalers and large chain store operators. The production of cheese is considerably greater than at this time last year and treater stocks are in public warehous. greater than at this time last year and greater stocks are in public warehouses. It is thought, however, that local and foreign demand will be strong enough to care for all stocks that have accumulated. Considerable Canadian cheese has been purchased by Ameri-

Veterinary.

CONDUCTED BY DR. W. C. FAIR.

season under the direction of grape growers. For several years the packgrowers. For several years the packthe disposance and about all attention was paid to producing wine grapes. It is now realized that the package end of the business presents great possibilities.

The crop generally is in excellent condition. Already some talk of price is heard, with unconfirmed reports that offers have been made up to \$100 per ton. It looks as though the grapes would ripen a fortnight ahead of time which means that the crop will likely escape all frost damage.

NEED TILE.

ROADSIDE MARKETS.

The regulations is that many foreign governments will not import horse weat from the United States unborse, meat from the United States unborse, with good care an Indigestion-Crib-biter.-Some time

drainage is needed, but tile now must milk a teaspoonful of hyposulphite of be shipped two hundred miles or more, soda in feed twice a day. Change their

years. On a recent trip through this They have good clay for manufacture reed.

Warbles.—Some of my cows have warbles and I wish you would tell me after farm. Some of them were quite respond with the County Agricultural pretentious with a fine display of fruit, Agent, Cheboygan, Mich.

Warbles.—Some of my cows have warbles and I wish you would tell me what to do for them. R. F. L., Litchfield, Mich. Open skin, squeeze the grub out and kill it, dust boric acid in-

HAY Ship To The Old Reliable House Daniel McCaffrey's Sons, 623-625 Wabash Bldg.. Pitrsburgh 'Pa.

Mr. POULTRY FARMER:

We make a specialty of White Hennery Eggs and ave created a profitable market for your eggs the eararound. We pay the highest premium for yous lennery Whites—We remit same day shipments crive. Ship Often—Ship by Express

GEO. R. ELDRIDGE CO. 494-18th Street, Detroit, Mich.

Holmes, Stuwe Co., 445 Riopelle St.

WINE MAKERS TURNING TO OTH These animals are eating much of the limited supply of range feed which the limited supply of range feed which is needed by live stock that is better live stock that is better is needed by live stock that is better live sto

Hustles Heavy Hogs to Market

gs, latter hogs. Get them ready arket in far less time. You can to ove at our risk that Mikoline is rest farm money maker known.

Guaranteed Trial Offer We will ship you barrel or a barrel. Take 30 days — feed half to your

Milkoline has a base of Pure Modified Butt to which essential fats and act added. Milkoline comes in condensed form keep indefinitely in any climate. Will not sour or rot. Files will not come near it.

2c a Gallon For feeding mix one part Mill feed with your usual grain feeds. It helps keep rith your usual grain seem, y, their appetites keen and makes more; of grain. Stop buying buttens wilk of my. Use Milkoline and so of ze a gallot grain. Stop and sta cost ze a gallot fed as directed. Many users say M them one-third on feed bills because inoge and poultry assimilate all their fee

1400% Profit W. H. Graham, Middle writes that he got an

der from Nearest Dealer or Direct from this Ad

THE MILKOLINE MFG. CO. KANSAS CITY, MO.

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Edwards "Reo" Metal Shingles st less; outlast three ordinary roofs. No parepairs. Guaranteed rot, fire, rust, lightning Free Roofing Book



LOW PRICED GARAGES west prices on Ready-Mare-Proof Steel Garages. Sany place, Send postal 917-967 Pike St.,

Samples & Roofing Book

SHEEP

BUYASHEEP

ait a minute, buy Hampshires. The American Hamp-ire Sheep Association wants to send you a dand lit-booklet with list of Breeders. Some near you, rite OOMFORT A. TYLER, Secretary, 22 Wood-id Ave., Detroit, Mich.

Ingleside Farm Offers 80 recorded Shropshires—12 flock headers, 25 yearling rams for range or grade use, 45 ewes—mostly yearlings. Herbert E. Powell, Ionia, Mich.

Idle Wild Stock Farms Shropshire yearling rams
Make your selection early. Cliff Middleton, proprietor,
Clayton, Mich. R. 3.

Shropshires Am offering 16 yearling rams and yearling ews of Senator Bibby breeding.
C. J. THOMPSON, Rockford, Mich.

Shropshires—Rams Bred from McKerrow's Holker 275(014259R)377379 Eng.
Ilish strain. Dan Booher, R. 4, Evart, Mich.

For Shropshire Yearling Rams write of call on ARMSTRONG BROS., R. 3. Fowlerville, Mich

80 Reg. Shropshire Ewes yearling and Jan. Grieve, Fowlerville, Mich. R. F. D. No. 3.

For Sale Three Registered Oxford Yearling Rams \$40 each. Reg. and Del. for quick sale. Don't wait. J. Robert Hicks, St. Johns, Mich. For Sale. Registered Oxford rams, 2 ram lambs 1.
Abbott, Phone Deckerville. 78-3 R. 2, Palms, Mich.

L ing for sale. We are also offering a few aged ewes. Floyd J. Anderson, R. D. No. 10, St. Johns, Mich.

Reg. Shropshire Ram Lambs with both size and quality.

C. K. Topliff, Eaton Rapids, Mich.

HORSES

Percherons, Holsteins, Angus, Shropshires, Durocs DORR D. BUELL. Elmira, Michigan.

BREEDERS OF PERCHERONS Imporant, (Wt.-2350) Sire of one & two yr. olds. Sevier a ton son with 14 in. bone at two years in service. Mares as good. Young stoet for sale. Chas. Osgood & Sons, Mendon, Michigan.

Percheron Stallions and mares at reasonable prices; Inpect tion invited.

F. L. KING & SON. - Chartlotte, Mich.

For Sale- A Car Of Grade Draft Colts



How big a bag will you bring back?

HEdifferencebetween a bulging bag and a lean one is often a question of gun and shells and not of shooting skill.

Make sure you have the right game-getting combination—shells that kill when the aim is true, and a gun that enables the shell to make its best pattern.

Good shell patterns are either allowed or prevented by the character of the gun barrel—the chamber, bore and-choke.

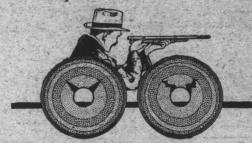
Faulty chambering even more than faulty choking tends to mash and "ball" the shot, making pellets fall short or fly wide.

And if a gun is faulty in its most vital part, the chamber, the chances are that the bore is also carelessly

From chamber to choke, the barrels of the famous Winchester Repeaters are bored to make the shell throw its highest pattern. They are free from shot-jamming defects. They let the shell do its full work.

"Line" test the barrel

Point a Winchester barrel toward the light and look through the bore. It looks like a highly polished mirror. Not a false shadow throughout the bore. Sight through the bore at a horizontal black line on the window. This line will throw a "V" shadow in the bore. Tilt the barrel till the point of the "V" touches



The "Line" test

Perfect bore of Winchester barrel revealed under "Line" test, Irregularities revealed in inferior shotgun barrel under "Line" test,

the muzzle. The perfect "V" shows absence of irregularities.

This is the "Line" test of a perfect bore. No faulty barrel can pass this test—the "V" will be distorted.

What means

This mark on a Winchester barrel means that the gun has passed the "Winchester Provisional and Definitive

Proof" test, having been fired many times for smooth action and accuracy, and strength-tested by firing 25 to 40 per cent excess loads. This stamp stands for Winchester's guarantee of quality, with 50 years of the best gunmaking reputation behind it.

Your dealer will show you Winchester Guns and Ammunition

Before you take to the woods this Fall, get your dealer to show you a Winchester Repeater—Model 97 for hammer action; Model 12 for hammerless. Put one to your shoulder, try its balance, see how beautifully it handles. Your sportsman's instinct will tell you it's the best weapon you could choose. Leading hardware and sporting goods dealers in every community carry Winchester Arms and Ammunition. They will be glad to assist you in selecting the gun best suited to your needs. Upon request, we will mail you, free of charge, the complete catalog of Winchester guns and loaded shells.

WINCHESTER REPEATING ARMS CO. Dept. 14 New Haven Conn., U. S. A.

Important Notice

The chamber, bore and muzzle choke of all Winchester Shotguns are reamed to micrometer measurements for the particular Winchester Shells they are meant to shoot. You will get the highest and most uniform pattern results by shooting Winchester shells in Winchester guns. The two are made for each other.

