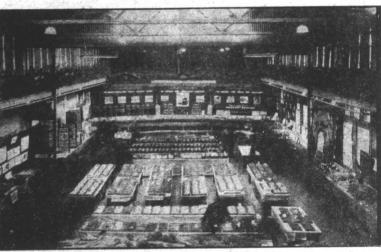
VOL. CLVI. No. 8 Whole Number 4136 DETROIT, MICH., SATURDAY, FEBRUARY 19, 1921

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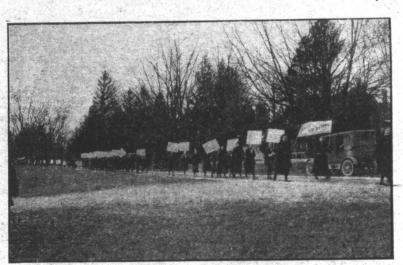
Snapped During Farmers' Week



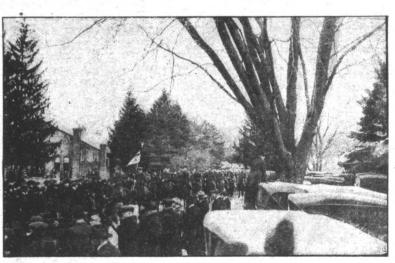
"All Scotch" Highland Lassies and Clydesdale Horses Gave Color to the East Lansing Parade.



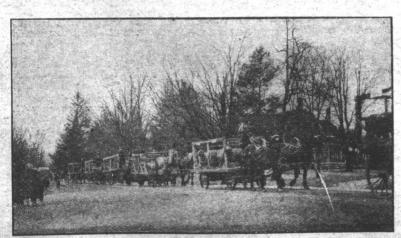
Thousands of Michigan Farm Folks Viewed with Pride this Championship Corn and Grain Exhibit at the M. A. C.



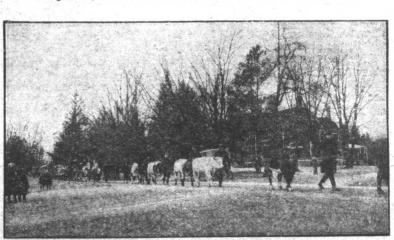
College Co-eds with Banners Flying Formed a Most Attractive Feature of the Great Agriculture Parade.



The College Military Unit Headed the Parade, with Major P. J. Wrightson, Commandant of the Cadet Corps, as Marshal.



Even the Sheep Came Out to Greet the Visitors at the Agricultural College Farmers' Week.



Some of the Beef Cattle from the College Herds were Out on Full Dress Parade on the College Campus.



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DETROIT, FEBRUARY 19, 1921

CURRENT COMMENT

State Taxation Problems

W ITH a deficit of millions in the state treasury, and with extraordinary demands being made on every hand for state

funds for the support of state activities, such as the care of unfortunates and dependents, the restraint and reformation of criminals, the maintenance and development of educational institutions, the carrying out of the road improvement program, the everincreasing expense of law enforcement. etc., the ever-vexed question of taxation has become an all important consideration for the people of Michigan at this time.

propriations to meet the indispensable are concerned. The average farmer horses. needs for state purposes in the imme- can raise better horses than he can diate future, Governor Groesbeck has afford to buy. The colts from his plements increase the efficiency of the proposed a capital stock tax on corpor- mares, the product of one stallion, will ations, which plan is finding favor with mate more closely in disposition and fitted with a collar and a good harness legislators as a source of state income be better adapted to his work than can do more work and do it easier which can be quickly realized, as it is horses that he can buy, one or two in than one that is compelled to wear a believed that such a tax can be made a place. There is something about the poorly fitted, dilapidated harness to collectible 'uring the present calendar working of horses that match in size,

state have long been working on this and men more efficient. It is difficult tax problem. Their members have long to buy good pairs of farm horses, and to make repairs during the busy searealized, as other thinking citizens the necessity of making up three and son. Fly nets help to increase the effihave come to realize, that the burden four-horse teams makes it very desir- ciency of horses during the summer. of property taxation on the farms and able to have a lot of uniform horses They are not expensive and will last homes of this state has reached its that have the same size and disposi- a long time if given good care. Large practical limit. In casting about for tion. This can best be accomplished implements save the time of horses as other sources of state income to re- by breeding a few uniform mares to well as of men. There are many times there sources of state income to reby breeding a few uniform mares to well as of men. There are many times other communicable diseases.—During
lieve the heavy burden of taxation on one good stallion. The surer way to when three or four horses can do more the past week about seven thousand farms and homes, the farmers' organihave matched pairs is to breed them. efficient work than two horses, and men have returned to work in Detroit. zations have settled on a state income It means persistent effort and an ad-leave an extra man to do the odd jobs tax as the most feasible method of se- herence to one type until the purpose about the farm. With several horses curing such relief. Following up this is accomplished. crystalization of opinion these organi- The farmer who goes into the busi- opportunity to keep everything movzations have severally approved the ness of breeding a few good mares ing smoothly without allowing the tax in Mich igan, similar to that now in force in resolve to patronize the best stallion cost of suitable farm horses and keep-Wisconsin and some other states, within reasonable distance of his farm, ing them during the year makes it imwhich plan has also been approved by and to continue his breeding opera- perative that they have something to the State Tax Commission. Now practions on a moderate scale each year, do every day when the weather is tical action along this line is being through good and bad times. It seldom pleasant. urged by the federated legislative com- pays to keep more mares for breeding mittee of these organizations, which uses than can be furnished with steady, counts, not the work that is accommet in the senate chamber of the capi- profitable work during the greater part plished through attempting to do two tol at Lansing on February 11, for the of the year. Horses should have work. day's work in one. A well-laid-out sysdiscussion of the proposition and the This is the main argument in favor of tem of crop growing distributes the formulation of a plan of action. This farmers keeping well-bred mares, work of the teams so regularly over committee consists of representatives Farmers need their work, and the the season as to greatly economize the States not to withdraw the American of the State Grange, State Association work with intelligent management horsepower required at any one time. of Farmers' Clubs, Gleaners, and the agrees with the mares. Many farmers By planning fall plowing, manure haul-State Farm Bureau. The meeting was are employing mares for work, and ing during the winter, crop marketing, also attended by representatives of a they are raising strong and growthy wood hauling, feed hauling and other number of other organizations not pre- foals. More mares are abused stand- odd jobs, various work may be finished viously allied with the committee and ing in idleness than at work on the by the time the spring rush comes

organizations.

tution before a state income tax yards or pasture for an occasional frol- more work, and do it easier, than amendment to the constitution which muscles are accustomed. would permit the enactment of such a action by the legislature if possible.

that is impossible. It is conceded by son. er that new sources of tax money are not in sickness. imperative under these conditions. You state for their approval.

Raising Better Horses

THE country is

strength and disposition that makes The farmers' organizations of the the work much easier and the teams able implements reduce breakage to a

each year

numerous lay members of the allied farm. The draft mare must exercise to again, and the horses will be in better After full discussion of the proposities, and, as a rule, she will get more if allowed to stand idle. On many tion it was agreed that it would be moderate exercise at work on the farm farms two good teams, with skillful necessary to amend the state constitution when she is given the run of the management, could be made to do law could be enacted. Accordingly a ic, and runs and jumps and kicks, slip- three teams now do it with blundering committee of five was appointed to ping and straining her soft muscles. management, thus cutting down the meet with the governor and the taxa- She is far more likely to injure herself cost of operating the farm from three tion committees of the two houses of in this way than by performing work to four hundred dollars a year. Wheththe legislature to submit a proposed on the farm to which her hardened er a farmer is operating a tractor or

law, and urge its immediate submis work teams the farm must be run on look the possibilities of increasing the sion to the voters of the state. It was a systematic basis. Horses should efficiency of his business through raisbelieved that if prompt action could be have steady, profitable work every day ing better horses and providing them secured, the proposal could be submit- when the weather is favorable. There with profitable work as many days as ted at the general election in April. is no excuse for work teams to stand possible during the year. The initial presentation of the plan idle many days in a week. Horses was made on Tuesday of this week, need regular work. Weather condi- News of the Week and the matter will be closely followed tions will cause some loss of time, but up by the committee to secure quick there are always odd bits of work ction by the legislature if possible. apart from crops that can be done as Interested members of these organi- well a number of days or weeks ahead zations can be of great aid in getting of time as when they demand immediearly action on the submission of this ate attention. More work is accomproposed amendment to the voters of plished and there is less rush and exthe state by urging the importance of pense if plans are made to do anything such action on their representatives in a few days or weeks ahead of time inboth houses of the legislature through stead of a few days behind time as is a personal interview, or by letter if usually the case during the rush sea-When this policy is enforced all who have given careful study and there is less temptation to overwork thought to the situation that a mate- the horses to make up for lost time. rial increase in state appropriations is Every day horses are crowded beyond ships in American harbors. unavoidable in the present situation, their strength is dearly paid for in es show a decline of twenty-six cents It is certainly apparent to every farm- loss of condition and broken spirits, if

Much of the horsepower on many can help solve the problem by support- farms is wasted because of the owning this committee in its efforts to get er's inability to properly adjust the a proposed amendment to the constitu- hitch to accommodate several horses. tion which will make possible the adop- If one horse is able to do more work tion of an income tax for state pur- than one of his mates, make him do it. poses submitted to the electors of the The whiffletrees can be adjusted to divide the load, and economy demands that each of the team do a full day's work according to his strength. The short of suitable ease with which this can be done, the alleged building trust. farm horses. There is however, is no reasonable excuse for no doubt about this, keeping a miscellaneous bunch of farm are being massed on the Polish front, and when all things work horses. It is hard to place too ian front. are taken into ac- high an estimate on the value of the count it is plain that it is about time stimulus given to the business of the As a means of providing funds for farmers saw the light more clearly and farm by well-matched teams. Good overcoming the present deficit in the set about the problem of supplying men prefer to work on the farm where state treasury and for increased ap-their needs so far as suitable horses the work is done with high-class farm

> Good, strong harness and durable imwork teams. The horse that is well annoy and irritate him every step he takes while at work. Strong and durminimum and avoid delays required handled by one driver, there is more should do so with the firm horses to stand idle in the barn. The

> > It is the steady, every-day work that

properly develop her breeding quali- condition than they would have been depending entirely upon horses for To secure maximum results from the farm work, he cannot afford to over-

Wednesday, February 9.

REAT BRITAIN is supporting the GREAT BRITAIN is supporting the United States in the proposal to internationalize Yap Island—An important election in South Africa is being held to determine whether the territory will remain one of the self-governing dominions of Great Britain, or set up an independent republic; to date lead.—The United States Senate and House committees agree on a bill for the government regulation of cold storage.-Health officers in this country are worried lest an epidemic of typhus start from victims now on emmigrant during the past two weeks.

Thursday, February 10.

UDGE GARY declares that existing prices and wage scales in the steel industry are to continue.—An order is issued by the Interstate Commerce Commission directing the public utili-Michigan to inties commission of crease intrastate railroad rates twenty per cent, which order has been tempor arily blocked by injunctions.et indictment naming twenty-nine corviolating of the porations charging New York state anti-trust law is re-turned by the grand jury investigating -It is reported that forty divisions of Soviet troops and twelve divisions on the Rouman-

Friday, February 11.

THE latest returns on the South African election of rican election shows the imperialistic party to be slightly in the lead.— At least twenty-seven persons were killed and forty injured when a tornado strikes the town of Oconee, Ga .-A resolution is introduced in the United States Senate providing for an international conference to arrange for a reduction in the German indemnity and the settlement of the European war debt to this country.-Bavaria agrees to conform with Germany's disarmament pact.-Dr. D. C. dean of the medical school of the University of Michigan, resigns after fifty years of service in that capacity.

Saturday, February 12.

T is announced that a general reduction in wages of railway employes is not being considered by the association of railway executives.—President Wilson declines to adopt the New York health commissioner's suggestion that a complete embargo upon immigration be placed on New York City as a protective measure against typhus and -A treaty of peace between Soviet Russia and Poland is signed at Riga, peace between Soviet according to a dispatch from Moscow -Chicago tenants are organized to oppose high rents upon the expiration of their present leases.

Sunday, February

REVIVAL of trade with Japan is A REVIVAL of trade with Japan is indicated by the substantial increase in imports and exports for January.—Secretary of the Navy Daniels advises giving the President control over oil resources.—The new administration is expected to take seventy-five thousand names from the government payroll, beginning July next.-Price readjustments by independent steel concerns was the feature of the past week in this industry.—Denmark has become a heavy buyer of American goods. forces from Haiti.

Monday, February 14.

PREPARATIONS are being completed for the opening of the British Parliament tomorrow when a construc-tive program offered by the govern-(Continued on page 252).



PRESENT OFFICERS AND EXECUTIVE COMMITTEE OF THE STATE FARM BUREAU

Rear Row, Left to Right.—A. J. Rogers, Secretary Pro-tem, of Beulah, Benzie County; Fred Smith, of Antrim County, (Elk Rapids); W. E. Phillips, of Decatur, Van Buren County; A. T. Depue, of Faithorn, Menominee County. Front Row, Left to Right.—Fred Van Nordsdall, Treasurer, of Three Rivers, St. Joseph County; A. E. Illenden, of Adrian, Lenawee County; Mrs. Edith M. Wagar, of Carleton, Monroe County; James Nicol, President, of South Haven, Berrien County; M. L. Noon, Vice-president, of Jackson, Jackson County.

Farm Bureau Executive Committee Meets

the new executive committee of the his time at the farm bureau offices. quarters, Wednesday, February 9.

was defeated by James Nicol, of South his own duties. Haven, for the presidency of the organ- The executive committee clothed Growers' Association for organization For

delegates at the annual meeting. It committee: was said that no action would be taken upon the resolutions until a permanent Depue, Faithorn, Menominee county. secretary had been appointed.

Two offices were dispensed with- Smith, of Elk Rapids. that of the campaign manager. Action Jackson.

R. A. J. ROGERS, of Beulah, for- in both cases was taken in the intermer member of Michigan State ests of economy, the committee said, Farm Bureau executive commit- and as a step toward a more compact Edith M. Wagar, of Carleton, Monroe scale of prices for the 1921 season for tee, was elected temporary secretary, organization. It was said that Presi-county. and Fred Van Norsdall, Three Rivers, dent Nicol plans to take an active part The elevator exchange, live stock These prices are based upon those alwas reappointed treasurer of the State in the administration of farm bureau and beet chairmanships are pending. ready reached in a conference of the Farm Bureau at the first meeting of affairs. He hopes to put in much of Before adjourning to meet again at Utah-Idaho Farm Bureau growers with

over the duties of the campaign man-ecutive committee voted to advance beet growers called by the American Mr. Rogers will assume the duties of ager and will handle all matters per- \$500 from a previous appropriation, Farm Bureau Federation at Chicago. C. A. Bingham, former secretary, who taining to organization, in addition to voted by the delegates at an annual The scale is as follows:

ization, at the State Farm Bureau's President Nicol and Secretary Pro-tem purposes. It also accepted the follow- For For annual meeting, held at the Michigan Rogers with authority to act for the ing statement from the sugar beet men For Agricultural College during Farmers' entire executive committee in all mat-Week.

For 5c sugar, beets per ton.... 11.61
For 11c sugar, beets per ton.... 12.90

tee, which adjourned after deferring men of farm bureau committees, the signing beet contracts for the coming For 15c sugar, beets per ton... action upon resolutions adopted by the following members of the executive season. The beet growers' statement

Upper Peninsula and Forestry, A. T.

Seed. W. E. Phillips, Decatur.

meeting, to the Michigan Sugar Beet For 5c sugar, beets per ton....\$ 6.45 Several changes in organization committee.

Several changes in organization committee.

Cently approved by the American Farm For 12c sugar, beets per ton.... 16.77 For 13c sugar, beets per ton.... 16.77 For 14c sugar, beets per ton.... 18.06 is as follows:

The critical situation in the sugar Bureaus in connection with the State sented.

and National Beet Growers' Associa-Publicity and Home Economics, Mrs. tions have united in working out a all beet-growing states of the country. the farm bureau offices in Lansing on the factories of that section and were farm bureau, held at the Lansing head- The permanent secretary will take Friday morning, February 18, the ex- approved by the recent conference of

5c sugar, beets per ton.... 7.74 6c sugar, beets per ton.... 9.03 7c sugar, beets per ton.... 9.03 8c sugar, beets per ton.... 10.32 9c sugar, beets per ton....

The sugar price used as the base of reckoning is New York or seaboard To Michigan Sugar Beet Growers. price averaged for the whole year.

Growers are urged to study these Legislative and Field Work, Fred beet industry is commanding the most prices carefully and await developpainstaking consideration by every ments before signing contracts offering that of the assistant secretary, and Dairy, Vice-president M. L. Noon, of grower. The State and National Farm a lower scale than the one here pre-

Alfalfa Seed for Michigan Farmers

By A. L. Bibbins, Extension Specialist, Michigan Agricultural College

deavor to hide and forget the failures.

guide for future seedings.

serve as a valuable experience. If all liming and inoculation that we have no ful alfalfa production. of those who have failed with alfalfa right to seed alfalfa. would carefully diagnose the case, Even with these essentials well pro- seed on well-drained fertile soil that endeavor to handle the best of seed;

failures! We have them both. "Don'ts," and thus, failure furnishes in- to winter-killing. Our late experiences prepared; however, to obtain the max-Pride is taken in those stands formation which if properly applied have taught us that there is a wide imum returns it is very important that which have proved to be successful; insures success with later seedings. variation in hardiness between differ- pure viable seed of the hardiest and

LFALFA successes and alfalfa they would quite likely have a list of vided for there have been failures due has been limed, inoculated and well however, it is quite customary to en- Michigan's Experience with Alfalfa. ent alfalfa strains. Some easily suc- best adapted varieties be planted. The first alfalfa seedings made in cumb to the ravages of an open winter The successful stands are of great Michigan clearly demonstrated the nec- with little snow and lots of alternate value, not only because of the yields essity of drainage and the thorough freezing and thawing, and formation ily detect dirt, sticks, etc., in seed, but of valuable feed that they produce and preparation of the seed bed. Many of smothering ice-sheets, while, on the very few notice the presence of weed the influence the crop has upon the stands are testimonials to the value of other hand, there are varieties which seeds and adulterants. Occasionally, soil, but also because they serve as a lime and inoculation. The early ex- are quite resistant to such conditions. apparently high-class alfalfa seed upon periences have been such that they tell It is quite apparent that the earlier examination is found to contain many The failure may not be termed a to- us that if we do not believe in drain- growers of alfalfa overlooked one of weed seeds, which greatly lower the tal loss if we but make use of it to age, in a well prepared seed bed, in the most important factors of success- value of the seed and enhances the

What is Good Alfalfa Seed?

It must be pure. Most of us can readsuccess of the crop.

To be sure, it is most essential to The great majority of the seed trade

legumes which to most is unnoticed.

contains from one to twenty-five per mesticated varieties. cent sweet clover. An alfalfa price seed should have been delivered.

A much worse adulterant is vellow severe winters. trefoil, a southern-grown legume which farmers are easily deceived by adulterating alfalfa seed with yellow trefoil.

The writer has seen samples of al falfa seed which contained as high as twenty-five per cent of yellow trefoil This means that the buyer pays for one hundred pounds of alfalfa but only receives seventy-five pounds. Samples of this seed have been shown to hundreds of Michigan farmers with the result that the great per cent were com-

The seed must be plump, of good color, and viable. Shriveled and light seeds seldom produce thrifty plants and no one can afford to accept seed which contains many. The color of alfalfa seed is a fair indication of its general condition and germinability. It should be of light straw color and free from many green immature seed and seeds of reddish or reddish-brown color. This latter type is taken to indicate seed that is either old or has been damaged at harvest or in storage.

Odor should be fresh: If a sweet odor is present look closely for sweet clover hulls and seeds. The cumarin of sweet clover gives it a peculiar sweetish odor which is foreign to alfalfa. Alfalfa seed which has an odor similar to that of rancid butter usually is old and of low-vitality. Occasionally such seed is used to adulterate good viable seed and thus it is sold, not at its worth, but at the price of high-quality seed.

The seed should be of a strain that is hardy and adapted to the regions in which it is to be sown. It is a conceded fact that southern-grown domestic seed is not hardy enough to withstand our more rigorous climate.

Millions of pounds of alfalfa seed have been imported into America from countries of southern climes with the result that the value of the careful preparation of the seed bed, liming and inoculation, are lost because the seed sown was unadapted.

Alfalfa seed of most any strain if viable will germinate and give growth and indication of a successful stand the first year, but if it is unadapted it will show signs of weakness in the second year, especially if the previous winter was in the least unfavorable. and unadapted varieties is usually most gives poor yields. strains which are not sufficiently hardy their maximum strength in the third name of variegated because of the ed varieties. kind that should be sown.

be classified as adapted or unadapted. brown and blue. Varieties of Alfalfa Unadapted to

Michigan. or hairy types, had their origin in Peru. submerged in the soil which in con- to be had. It is considered to be a leading variety trast to the smaller and higher set for the warmer regions of the United crown of the common, makes them States and is widely used in California more resistant to injury from alternate looks just as good as the best of the grasshoppers can make no better inand along the Mexicon border. In com- thawing and freezing. The tap root of variegated alfalfa. It is next to an im- vestment than a nice flock of turkeys. parison to common alfalfa it has small- the variegated strains is branching and possibility to distinguish the seed of er crowns, fewer branches and stems, thus the crown is better anchored in each but there is a great difference in and is more upright in its manner of the soil and given greater feeding area, their value for our Michigan condi-

tion that occasionally, either by care-variation of climate the seed from Tur-ditions. lessness or perhaps with a purpose, kestan varies in its hardiness—some

French and Italian varieties are

however, we are faced with the situa- bears its name. Because of the wide productive varieties for northern con- use of seed that was not genuine

alfalfa seed is adulterated with other doing quite well in the northern states excellent variegated varieties and in purity and germinability of the seed, of America, while other Turkestan addition there is the common, which if but also its trueness to name, freedom Seed of both the yellow and white seed fails when sown in this region, the seed is produced in the north, es- of mixtures with other varieties, and blossom sweet clover are sometimes The United States Department of Ag- pecially the Dakotas or Montana, is its origin should be guaranteed. used to adulterate alfalfa seed, and the riculture reports that Turkestan alfal- quite suitable for use in Michigan, but Fortunately growers in the Dakotas, farmer later discovers that his field fa is not as good as many of our do- usually not so productive as the true Montanas and Idaho have organized Grimm.

is of little or no value to Michigan produce good stands but seldom are as as they are going into the protective of such seed has already been purfarmers. The seed of yellow trefoil re- profitable as those of the more hardy dormant stage. In this condition they chased by the farm bureaus and a few

Grimm. Buyers of alfalfa seed should Grimm, Cossack and Baltic are three insist upon a guarantee not only as to

themselves into associations similar to The Grimm, Baltic and Cossack va- our Michigan Crop Improvement Assowas paid for the seed and pure alfalfa poorly adapted to Michigan in that rieties withstand winter-killing be ciation and are putting their seed on they are unable to withstand our more cause they prepare for it. In mid-Oc- the market with certification as to its tober the plants may be six to eight purity, germinability, genuineness and Southern-grown common alfalfa may inches high and begin to turn brown, origin. Probably ninety-five per cent sembles somewhat the seed of alfalfa varieties. Southern-grown seed is not can stand freezing, without being killed reputable commercial seed houses. Mrr. -in fact, ninety-five per cent of the recommended for seeding in Michigan, when the common strains suffer be- J. W. Nicolson, manager of the seed Yellow flowered alfalfa seed produc- cause they grow late in the fall and department of the Michigan State Farm Bureau, visited the Grimm producing sections of the northwest and purchased 110,000 pounds at fifty cents per pound f. o. b. shipping point. The farm bureau would like to obtain more of this seed but find that the supply is exhausted save for a few small scatter-

> Our advice is to know the source of your alfalfa seed and demand a guarantee as to its purity, germinability, origin and trueness to name.

TURKEY RAISING IN MICHIGAN.

URKEYS on a small or large farm are one of the most profitable in vestments. They make one almost one hundred per cent profit when the bugs, worms and grasshoppers are taken into consideration.

In the first place, I keep my turkeys as quiet and tame as possible. The young ones eat out of my lap and fly into my dish while feeding them. When the hens start to lay I locate the nest if possible, take the eggs to prevent their chilling, placing hens' eggs in the nest. When the hens start to set I only place under her what eggs she can nicely cover. The rest are put under hens, on the ground if possible, but given to turkey mother as soon as

We make a pen as soon as they are ready to leave the nest, just something that will keep the young ones in for three or four days. Then they are only let out for a little while at a time. Always see that they are shut up at night to prevent them from getting into the wet grass in the morning, for a turkey can't stand wet feet.

I feed my turkeys four or five times a day until about a month old, then gradually less, until twice a day. I always feed my little turks the first thing in the morning when I get up, as this makes them more contented and keeps them from going into the wet

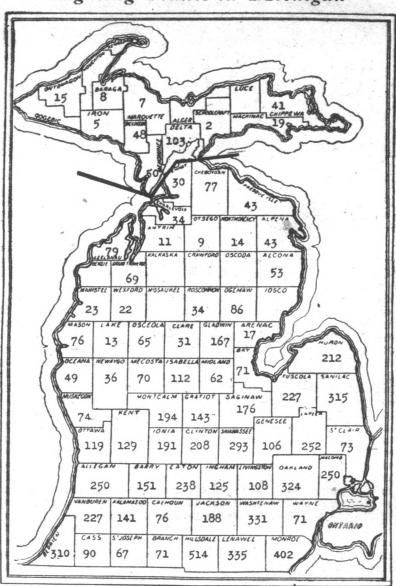
I have had the best success in feeding rolled oats. I buy it by the one hundred pounds. The little turks like it, they eat it readily, and it always agrees with them. I also use plenty The great difference between adapted es a low-spreading type of plant which not in the protective stage when the of curd with red pepper, and often freezing weather arrives. This kills bread and milk with red pepper. I Those Alfalfa Varieties Adapted to Michigan. some plants and weakens the produc- give plenty of fresh water and milk to The various strains of the variegated tive power of others with the result drink. They must have plenty of grit

> I always empty ashes where they can get them easily to eat and dust in.

You will feel fully repaid for this there is not much danger and as soon as they are in the red, can look out Pure, viable, common alfalfa seed for themselves. Farmers troubled with

> The main object in the first few months of a pig's life is to produce bone, muscle and growth. Sort of get

Lighting Plants in Michigan



Map Shows Number of Farm Electric Lighting Plants in Each County of Michigan as Estimated by the State's Federal Crop Estimators.

greater yields resulting. Many tests tions. The district of Turkestan Russian have demonstrated these strains to be

begin to die and June grass takes their alfalfas are best adapted to Michigan that the stand is a complete failure or and will eat shells when quite young. place, while the hardy strains are at conditions. These strains obtained the produces yields inferior to the improv-

year and returning a valuable crop, wide variation of the color of the blos. In the spring one may notice that Keep plenty of good louse powder on Good seed of such varieties is the only soms, there being a variety of colors the common strains are slow to start hand. When "dumpy" grease the top ranging from white, light yellow, and growth, while the Grimm, for instance, of their head with turpentine and lard, Alfalfa varieties for Michigan may green to the smoky hues or purple, with its vigor conserved starts quickly use plenty of powder under their and makes four to six inches of new wings. The variegated strains have widely growth before the weaker common has spreading crowns, which are low-set started. This proves to be an advan. work when you market a nice big heal-Peruvian alfalfas, either the smooth and may be partially or completely tage at harvest time for more hay is thy flock. After a turk is six weeks old

Know the Source of the Seed.

Many of the adverse reports we hear him in shape to carry a big load furnishes a variety of alfalfa which the hardiest, longest-lived, and most concerning Grimm may be due to the corn to market.

Marketing Michigan's Fruit Crop

Mr. Hutchins Believes the Past Season's Experiences Argues Strongly for More Cooperation

which they can afford and which the out of the deal. growers can afford. There are plenty of people not far from the large commercial orchards who scarcely have a taste of fruit.

Some of the heavy expenses involved in marketing fruit cannot be very materially reduced by the growers at present, but there are some that can. It is difficult to get any reduction in transportation rates or for the people to gain much improvement in railway service, but the influence of the farm bureau may be able to help some and perhaps secure a better supply of cars. Unemployment may help out the labor situation, and a smaller fruit crop, which is certain another season after such a large yield, may make a lessened demand for packages and cause a reduction in price. But there are ways in which some of the enormous expenses of the past season may be materially reduced.

W HATEVER may be accomplished must be done through coopera-Individual effort is futile, and one of the first things necessary for a closer union of forces is for the grower to understand more fully his limitations. There are some requisites in successful marketing which the individual grower lacks. The first is, he is not a salesman. Selling goods is an art, and there is an army of salesmen traveling over the country whose sole business is selling goods, and these do most of the selling. The owner of a large business establishment of any kind rarely goes out selling his products, nor does the superintendent or any of the hands or roustabouts. The selling is all done by men who are experts at the business, and without The illustration shown herewith illustrates in the other side of each feeder. Denses about as follows: But the farmer has to be superintend- chased from your local lumber dealer, preferable one. After you have filled ent, hired man and roustabout all in Build these feeders so that hogs can them two or three times you will know one, and salesman combined. No man get at both sides of them, then you how often they should be filled and is sufficiently versatile to be all of get just twice the feeding capacity for there will be little or no need for lookthese at once, and should he attempt the length of each feeder, as you do ing them over except on filling days. be favorable to the purchaser.

a knowledge of their value. This is their purpose.

HE season now closing has prob- stant, as it is in marketing fruits, the the best markets are. There are al- keeping properties of the fruit, and its strangely enough, consumers have not tion would set himself down as an easy with individual effort. benefited at all by the low prices to mark. Instances are numerous where scarcity of cars and poor railroad ser- cents per bushel for potatoes when cents to carry the same quantity in a exchange. vice, the increased cost of transportathey were selling for \$2.50 in a mar-barrel, is out of all reason. The return This statement needs qualifying. A tion, the high cost of labor, the big in- ket not twenty miles distant. A farm- of empties is common in other lines, large proportion of the apples of westcrease in price of packages, have all er having several hundred bushels of particularly with poultry and eggs. combined to levy a heavier tribute up- crabapples was offered \$3.00 per bush- A number of fruit growers with changes, and the fruit is widely dison the returns from fruit than the in- el for them. Compared with prices in whom I have talked agree with me that tributed throughout the country. If dustry can well stand. It remains to former years this looked good to him, it does not pay to make the grades of the immense crop of the year had been be determined whether or not the and although he belonged to a fruit apples put up in the exchange packing dependent on local buyers and near-by horticulturists of Michigan will be able exchange he feared the manager plants. Buyers will not pay enough for markets, as formerly, prices would to successfully surmount all of the dif-might not be able to get as much, so the better grades to pay for the extra have been too low to pay for marketficulties or if people will have to go he sold. The buyer had no market for work and waste in making them. There ing. But the claim that people will short of fruit. One or the other of them, but went to the manager of the are always marks on apples, call them pay a fancy price for fancy fruit is not these is inevitable. There are people exchange and asked him to sell them, blemishes if you wish, which no spray- justified by the experience in the exenough to eat all of the fruit produced and wanted him to get \$4.50 per bush- ing or cultural methods will prevent, changes, and the lower grades, which in this year of unusually large crops if el. He didn't get quite that, but the such as small limb chafes and injuries are exceptionally fine apples, go for a only it can be gotten to them at prices buyer made enough to buy a good car caused by weather and by causes low price, and an unusual amount of

ably been one of the most disap- prices of which are subject to violent ways places where a car of fruit can appearance but slightly, but which rule pointing and unsatisfactory to fluctuations from day to day. With be sold for considerable more than is it out of the "A" grades. A considerfruit growers, as well as to those en- his ignorance both of prices and mar- offered by local buyers, but it is neces- able proportion of apples that are gaged in other lines of agricultural ket conditions the farmer is at an es- sary to have a carload to ship, and practically free from insect and fungus production, of any in recent years. By pecial disadvantage when dealing with this the average grower does not have, injuries, for the control of which spraythe grace of a beneficent Providence buyers who are informed on both of nor does he know where to place it, ing is done, goes into the lower grades these growers have been successful in these subjects, so he invites benevolent in most instances, even if he has a or into the ciders because of these making the two blades of grass grow assimilation at the very start by ask- carload. It is universally admitted that slight marks, and the buyers discrimiall right, but the benefits have accrued ing, "what will you give?" A seller in a wider distribution of our fruit is in- nate against the lower grades, but will mostly to the other fellow. But any other line by asking such a ques- dispensable, but this is impossible not pay enough for the first quality to pay for making such discards. Farm-There would seem to be no sufficient ers have been able to sell their merfarmers have been buncoed because of reason why a considerable saving chantable apples put up in one grade. A most peculiar and unprecedented their ignorance of values. An agricul- might not be effected by a return of or in some instances for a flat price combination of untoward causes have tural journal relates how a farmer not empty packages. Thirty cents for a bas- put up in two grades, for more money contributed to the poor showing. The long since was offered seventy-five ket to market a bushel of fruit, or fifty than is realized by the patrons of the

> ern Michigan now go through the exwhich perhaps nobody knows what, fruit which is better than will be found It is important, too, to know where which in no way injures the quality or on the hotel tables of the state generally, go into the ciders, which this year hardly paid for handling. And with present labor costs it is mighty expensive making such grades.

> > MANY imagine that the spread between prices to producers and consumers indicates profiteering, but an examination will show a chain of expenses which can be cut out by cooperative methods of marketing, and all are necessary under present methods. Fruit not marketed through the exchanges is either consigned to commission men or sold to local buyers. A bushel of fruit selling in Chicago on commission for \$1.50, or a barrel selling for \$4.50, which would be fair sales, incur the following expenses shipped by boat, rail rates still higher:

	Bushel.	Barrel.
Freight	\$0.30	\$0.60
Cartage	05	.12
Commission	15	.45
Package	31	1.50
Expenses	\$.81	\$2.67
Returns	69	1.83
	\$1.50	\$4.50

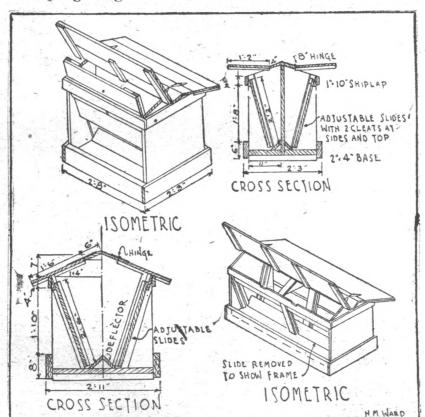
There is still a deduction to be made for labor costs of at least twenty-five cents per bushel, or eighty cents per barrel, which leaves the grower a net return of forty-four cents per bushel for fruit which sold in Chicago for \$1.50, or ninety-three cents for a barrel selling for \$4.50. But much of that fruit goes beyond Chicago and is subject to another set of expenses for transportation and commissions equal, probably, to those in getting it to Chi-

Original cost	Bushel\$1.50	Barrel. \$4.50
Transportation Commission	35	.72 .58
		-

A retail dealer living beyond Chicago and doing business for only ten to close contracts with a trained buyer when you make them usable on only Put the feeder where it and the hogs per cent, and that is not excessive the chances are that the bargain will one side. Make them of good strong will be protected from the sun and where stuff is measured out by the lumber, weather-proof and hog-proof from snow and rain. Then the hogs peck or smaller quantity, must charge Another essential in selling goods is so that they will stand up and serve can eat from it in comfort. If it is \$2.50 for a bushel which netted the high and dry so they do not have to grower only forty-four cents, or \$5.80 not so important in selling staples like You can make one for grain and one stand in mud as they eat from it, they for the barrel for which the producer (Continued on page 231).

How to Build a Self Feeder

Helping Hogs to Help Themselves—By H. M. Ward



these there is not one concern in a which most any of the readers will be Where you have only a small number hundred that could survive a month, able to build with ordinary lumber pur- of hogs the latter plan will be the

grains, where prices remain fairly con- for concentrates if you want to, or you will keep their feet clean.,

Farmer Interests at National Capital

By Elmer E. Reynolds

OTWITHSTANDING the reports that wool consumption for Depared with the preceding month; that meat-packing industry. on January 1, fifty-four per cent of the stocks on hand small.

Vast quantities of wool are coming into this country. There has always into this country. There has always been a rapid increase in wool importa- lation are confronted with a new ests shall have been disposed of. The made. The money is to be allotted to tions during an agitation in congress for higher duties and just before the ure, the United States Chamber of the court periodically, and the court is the states supply an equal amount. The enactment of a protective wool tariff. Commerce. Copies of a brief contain- empowered to set the time limit for sum of \$3,000,000 is provided for the This wool now coming to our shores, ing arguments against the proposed the disposal of the packers' stock building of national forest roads and however, is low-grade and does not legislation have been sent to members yards holdings. It is claimed by the trails. It is also provided that any come directly into competition with our domestic wools.

The stocks of wool owned by the United States government at the present time total 51,000,000 pounds; but the greater part of these stocks are classed as carpet wool. At the last government sale, 3,400,000 pounds of wool were offered, and not one lot was withdrawn. Of this wool, 3,000,000 pounds was sold to carpet mills, 2,800.-000 pounds having been purchased by two carpet mills. An auction sale of 4.000.000 pounds of government-owned wools scheduled for February 4, in Boston, was cancelled by Secretary of War

called adulterated butter tax situa- of Commerce. tion is information that Commissioner postpone the date of the ten-cent tax ers may register or not, as they wish, million bales. portunity to present their case.

This butter tax, if collected, will hit caps. the packers to the extent of several would be to force corporations engag- Agriculture in Washington. ton butter business in the United government operation."

A hearing will be held before the house agricultural committee February 15, on the Dyer bill to remove the tax on colored ofeomargarine. This is the first time oleomargarine legislation has been taken up during the present ses-

The Maryland-Virginia Milk Producers' Association, supplying Washingith milk has decided a plant in or near Washington, for the purpose of manufacturing the surplus milk of the members into butter, cheese and other products. The association has reduced the price of liquid milk from forty-four to thirty-six cents a gallon.

After an unsuccessful attempt on the part of the friends of packer regulation to get the senate bill reported out without amendment, the committee on agriculture ordered a favorable report on a substitute bill, which places the control of the packers with the Federal Department of Agriculture, and places the stock yards under the jurisdiction of the Inter-state Commerce Commission. The senate bill creates a live

have arrived here or are headed for packer bill out onto the floor of the commission. the Department of Agriculture there is vote it would pass the house. The de-filed with the district supreme court on per cent per annum. now a better market for domestic bate has been limited, and prospects February 7, under a ruling issued Janwools than at any time in the last are fair that the measure will be voted uary 4, which required the packers to three months, with a better demand on by the fifteenth of this month. It submit such plans within thirty days

The bill providing federal aid in the and better prices. They report that is also benefully predicted that it also be not a and better prices. They report that is also hopefully predicted that the of that date. territorial wools are in demand on the senate bill will be presented for action The plan provides for the sale of the of two hundred and seventy-eight to Boston market at prices ranging from on the floor of the house instead of the stock yards holdings on a cash or an fifty-eight. This measure makes availeighty-five to ninety-five cents a pound one reported out by the agriculture installment basis and names agents to able \$100,000,000 as federal aid to the on a scoured basis. There is a scar- committee. This is believed to be the conduct the sales. It is also provided states for road building during the city of fleece wool reported, with the only possible chance of its becoming that the district court appoint three next two years. The bill authorizes in a law during the present session.

> fourteen hundred organizations and tion of the dissolution of interests. more than fifteen thousand corpora-

this is the first time that the congress from any federal land bank, farm loan The American Farm Bureau Federa- has seriously considered taking con- bonds issued by such bank. Such purwool textile machinery in this country tion and National Grange representatrol of the entire functioning of a pri-chases shall not exceed the sum of was idle, and many cargoes of wool tives are working actively to get the vate industry through a government \$100,000,000 in either fiscal year, shall

trustees to supervise the sales and rep- addition the allotment from the treasand serious opposition to their meas- sales agents are required to report to the states proportionately, providing of the senate and house, and there has packers that sales of their interests person, firm, corporation, member of been sent out from the Washington are now in progress, and efforts are any highway commission, or employe headquarters of the chamber to the being made to hasten the consumma- that makes any false statement or rep-

tions, firms and individuals included in C HARLES W. HOLMAN, represented in the construction of any project its membership, a request that they ing the National Board of Farm Or-approved by the secretary of agricullend their assistance in opposing the ganizations, appeared before the Ford-ture, with the intent to defraud the legislation. This emphasizes the effi-ney ways and means committee in fa- United States, shall upon conviction be ciency of the business men's organiza- vor of a tariff on soja beans and soja imprisoned not to exceed five years or tion in lining up their support or oppobean oil, peanuts and peanut oil, copra pay a fine not to exceed \$10,000, or be sition to any measure before congress, and coacoanut oil. Tariff duties are punished by both fine and imprisonand also the necessity of the many asked for that will be sufficient to ment. farmers' organizations federating their guarantee that none of these products interests under one great representa- from the Orient can be laid down in make an aggressive fight for a reductive overhead organization, similar in this country at a lower price than Amtion in freight rates. It is said that its plans and methods to those now em- erican growers can afford to sell prod- they will go before the Interstate THE latest development in the so- ployed by the United States Chamber ucts with which these foreign prod- Commerce Commission with a welfucts enter into competition. At the planned program of protest against The chamber points out what it present rate of production in ten years present rates and further increases, the of Internal Revenue W. M. Williams terms "the farce of voluntary registra- Manchuria will be able to export cattle growers and shippers leading has refused to make any concession to tion as proposed in the senate packer enough soja bean oil to equal the cot. the movement. the butter manufacturers, except to bill. The measure provides that pack- tonseed oil from a cotton crop of seven Last fall when delegations of farm-

1921-1922, to purchase at par and accrued interest, with any funds in the cember showed a decrease com- stock commission to supervise the The chamber's brief contends that treasury not otherwise appropriated be made only upon recommendation in American ports, there is an encourage house for action this session. It is the A plan for the disposal of the stock writing of the Federal Farm Loan ing trend in the wool market. Accord- opinion of close observers in congress yards and other subsidiary interests by Board, and the bonds so purchased ing to the wool market specialists of that if the bill could be brought to a the "big five" packing companies, were shall bear interest at the rate of five

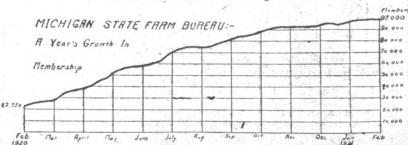
> the house of representatives by a vote resent the packers at stockholders' ury of an unexpended balance due the resentation as to the character of material used or quality of work perform-

> > The producers are preparing to

ers were coming to Washington, askbecoming operative until April 1. In but to those that register the govern- The Dairymen's Cooperative Sales ing for financial relief, Secretary of the meantime a hearing will be given ment grants special favors, such as as- Company, of Pittsburgh, supplying the the Treasury Houston firmly and peron February 25, before the internal sistance in procuring cars and the dis- Pittsburgh district with liquid milk, sistently turned them down with a revenue commissioner, for the purpose semination of information which it is has begun active work in its territory, declaration that the government could of giving the butter producers an op- alleged would place those not register- comprising several counties in Ohio, do nothing for them. All their proing under serious competitive handi- Pennsylvania and West Virginia, to posals were very emphatically pro-The effect of the provisions raise funds for the proposed Temple of nounced unworkable by the secretary of the treasury, and he would not sugmillion dollars a year, as they are ed in this business to register. Once An amendment to the general agri- gest any method by which the credit among the large distributors of cen- they are registered the government as- cultural appropriation bill, introduced situation could be improved. Even the tralized creamery butter. It is claimed sumes a control of the operation of the by Senators Swanson and Glass, of War Finance Corporation, he declared, that this tax will affect the entire car- business that is equivalent to actual Virginia, authorizes the secretary of could not do anything to help the farmthe treasury during the fiscal years of ers because there was no monex in the treasury for this purpose. Now, however, Secretary Houston insists that the government should loan the allies \$75,000,000. This he told the senate judiciary committee, at a hearing on the Reed bill to prohibit further credits to foreign countries, was the amount of authorized credits not yet absorbed by the allies, and which he claims the United States is under obligations to furnish

> The trial shipments of apples from the Pacific Coast to England by way of the Panama Canal have proved very successful, only a small percentage of waste being reported. A cargo of California citrus fruits from Los Angeles by way of the canal, was unloaded in Baltimore a few days ago, in excellent condition, and it is said by the steamship officials, that at a rate of nearly \$1.00 per hundredweight below the railway rates between the two points. The vessel made the trip from Los Angeles to Baltimore in twenty-one days. An official from the Federal Bureau of Markets is cooperating with the steamship companies in promoting these trial shipments.

Farm Bureau Membership Growth



THE accompanying graph shows the reader the rapid increase in the membership of the Michigan State Farm Bureau during the year from February 1, 1920, to January 31, 1921. The year began with only 22,749 members and closed with 97,264. Only seven counties remain to be organized: these are Ontonagon, Mackinac and Keewenaw in the upper peninsula, and Iosco, Roscommon, Oscoda and Pay in the lower peninsula. The county membership ranges from one hundred and thirtyfive in Crawford, to 3,220 in Sanilac, and the average for the seventy-five counties organized is 1,297 members, and forty-three of the counties have a membership of over a thousand and, and sixteen of over two thousand. In seven counties where the membership campaign has been continued by the County Farm Bureaus the number of members has been increased from 10,175 to 14,976, or an average increase of seven hundred members per county.

Among the Duroc Jersey Breeders

The Bred Sow Sale is Now an Established Feature of the Business

situation is the fact that so many highgood sows being offered at public sales. greater use of forage crops and take Michigan who commenced with one or One can find sows of all blood lines and of varying degrees of breed type and perfection, but nearly all are useful, producing animals that will deliver splendid profit for farmer purchasers. The prevailing prices are such that any good farmer can afford to own good sows. In fact, because of the current and prospective prices of grain and the relative higher prices of pork products, there are few good farmers who can afford to be without them. We are getting back to earth. The good brood sow begins to look better than ever. She will raise the value of farm feeds and contribute to the pleasure of farming. But be sure and select the good ones.

Prominent among the breeders who have good bred sows to offer at the coming public sales are some of the men who have put the Duroc Jersey breed of swine to the front here in Michigan. During the past few weeks the writer has visited many of these herds and the majority of the sale offerings are in fine condition and safe with pig to the best sires of the breed. Never were conditions more favorable for farmers to buy a few pure-bred sows and eliminate scrub hogs from their farms. The purchase of two or three good brood sows will furnish a fine drove of pigs to fatten for market next fall, and the sows themselves will be worth more next fall than they will sell for in these public sales.

The Duroc Jersey hog needs no introduction to the farmers of Michigan. The breed has made good on every farm where it has been given a fair trial for a reasonable length of time. The strong, arched back, body set well up from the ground: wide-sprung ribs; of high-class pork and lard.

turn for the feed consumed.

the modern Duroc Jersey hog, is one tions are unfavorable for selling has a farrowing pens I would not hold a bred time.

S a result of the awakening of of the most desirable points to look for decided advantage over those who are sow sale, for I am confident that prices the country to the fact that a class pork. It means longer, heavier, longer period without a loss. large percentage of last year's brood leaner hams, shoulders and sides; befor bred sows during the next few farrowing time. That long, broad back the neat, well-set-up underline which them expect to attend our sales. I am weeks. But few farmers have good also weighs heavy when the hog reach- prevents her udder from dragging on sure that if I could handle my sows brood sows to sell at any price. For es the market. Farmers who have bred the ground and insures strong, robust during the farrowing period I could tunately, however, some of our pro- and fed smaller hogs are always de- pigs. Besides this part of the carcass gressive breeders of pure-bred swine ceived in estimating weights of big is the least profitable at market time; have held over many of their last type Duroc Jerseys that carry so large the fewer pounds of live weight represpring gilts and during the next few a proportion of their weight above the sented in the underline the more prof- never a more opportune time for farmweeks these animals will be offered at line from the base of the ear to the itable hog you have to sell to the pack- ers to feed a reasonable number of public sale in various parts of the base of the tail. A well-sprung rib ers. It was not so very long ago that good hogs, and no farmer who feeds One of the most pleasing features of same qualities in the hog that a broad ideal for pork production, but during feed handling scrubs, for if there is

them. There are a remarkable lot of They make it easy for him to make every central and southern county in

the meat-producing interests of in the economical production of high-feeding pigs that cannot be fed for the will reach a high level between now

with a strong, broad back indicate the the low, shuffy hog was considered the Good strong legs and plenty of bone mals have demonstrated their supe-

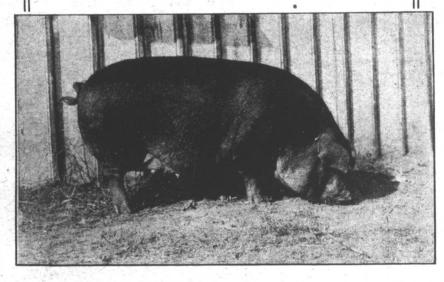
and the first of May. Already farmers in Indiana and Ohio, who have sold sows have been shipped to market sides it makes it possible for the sow there is sure to be a lively scramble to carry large, healthy litters safely to for bred sows during the next few farrowing time. That long bred book sell every pig saved for a good price next May and June. With cheap grain feeds and a scarcity of hogs there was hogs can afford to waste his time and the present hog breeding and feeding back and deep chest do in an athlete. recent years the big, mellow, long aniany farm animal where the value of pure-breds stands out clearly, it is the class pure-bred sows are going to sell are other points that contribute to the riority, both as breeders and feeders. hog. And sixty dollars invested in a at prices farmers can afford to pay for popularity of the Duroc Jersey hog. There are Duroc breeders in almost good bred sow will give any farmer a good start. A hundred dollars invested in a better animal would give him a better start, but that is purely a matter for the individual to decide according to the amount of money he has to invest. The only pure-bred game that one can get a start in for less money is poultry, where a setting of eggs will turn the trick."

> OTHER Duroc breeders are in the same position. They have fed high-priced grain to their breeding stock and developed their young sows with the expectation of finding a good demand for them from their farmer trade during the fall and early winter. Instead of reasoning along lines that the price of hogs must naturally follow the price of grain feeds, farmers who had finished this year's pig crop on high-priced grain feeds became disgusted and sent their brood sows to market along with their spring pigs. Today they find themselves with an abundance of cheap feeds and no animals to feed it to. Some of these men should thank their lucky stars that these breeders have had the nerve to hold their young sows for these spring sales, and give them an opportunity to correct their mistake in judgment before it is too late to get hogs to feed for next season. And many of them should also thank their lucky stars that it has also given them an opportunity to retire from the business of breeding scrub hogs.

> Many breeders of pure-bred hogs, and farmers, have been surprised at the number of Duroc sales that have been announced for the next few weeks. Some of them have even hinted that the breed was becoming less popular. I want to say right here that more than fifty per cent of the pure-

Buy a Brood Sow!

THE farmers of Michigan are beginning to realize the future possibilities of breeding and feeding good hogs. The growing tendency to raise better hogs than have been produced in the past is noticed in nearly every county. Live stock shippers report a decided improvement in the quality of hogs shipped from various districts. Today the hog growers of the state are in a position to buy some of the best animals within the popular breeds of swine without sending their money outside of the state and paying excessive express charges for the transportation of breeding stock to their stations. The breeders of purebred swine have surely done their part in placing this improved blood within the reach of the farmers and breeders. It remains for those who are interested in raising better hogs for market to avail themselves of this good blood through attending some of these public sales and buying a few of these good individuals at prices they see fit to offer.



neat, straight underline, and rich cher- sufficient exercise to maintain body two brood sows costing little more bred hogs in Michigan are Duroc Jerry coat, represents a highly perfected health and vigor. Some farmers still than their actual value for pork, who seys and it is not surprising that many machine for the economical production argue that the smaller, compact hog now have their farms well stocked breeders are putting on these bred will mature quicker and produce more with good hogs. What these men have sow sales. No one will deny that the pounds of fat at an early age. But ex-done farmers can do and they will breed seems to predominate here in ONE of the many points of excelperienced feeders know that it costs soon be in a business producing an inMichigan. They have virtually splashlence of the breed that should at more to produce a pound of fat than come almost as constant as the dairy ed some of our leading hog-producing tract the attention of farmers is the it does to produce a pound of lean cow, and generally much larger, as counties with red. This proud position markably strong constitution, which meat, so that old argument of early their herd improves and their experi- of the breed has been won strictly on in itself means extreme hardiness; maturity is knocked into a "cocked- ence broadens and the business be- the ability of the individuals to go out

you find hogs of that type you have three hundred to four hundred pounds. higher level before next summer. for sale at any reasonable price, for the kind capable of giving a good re- The farmer who is feeding a drove of Not long ago one of the most promi- there is not one good sow to be offered pigs that may be carried along a few nent Duroc breeders in Michigan said: at public sale for every one hundred The high back, so characteristic of weeks at times when market condi-"If I had the necessary hog houses and needed on our farms at the present

prolificacy, without which the farmers hat" by the modern Duroc Jersey hog. comes more profitable and interesting. on our farms and make good. hog-raising efforts are sure to fail; The large, vigorous, growthy pig is For the past three or four years most As grain prices decline and pork size and bone, which are so essential capable of producing more pounds of of these men have made satisfactory prices advance there is considerable to the making of profitable gains; ear- choice lean meat from a given amount ly maturity; easy feeding and the eco- of feed than the smaller, compact aninomical use of grass, forage crops and mal, and even though the tendency of tained their breeding stock and grown of them can replace those sent to marfeeds generally used on the farms of the markets is toward lighter pigs their gilts on high-priced feed, and now ket by attending these sales and reinthe state to supplement corn. This there will always be a demand for hogs they are willing to pocket a loss on vesting some of their money in purestrong constitution is due largely to that produce a fine quality of wellthe high, arched back, the rangy body, marbled flesh, even though they may still have faith in the Duroc Jersey compelled to wait until another year good width and even underline. When be carried along until they weigh from hog and know that prices will reach a before they can find good brood sows

Live Stock Exchange Delegates Meet

Endorse New Policy of the State Farm Bureau

amounting to three carloads of live empowered to act. stock were condemned to the tanks for tuberculosis.

paid for live stock.

traced to creamery section where skim-milk is fed, showing that tuberculosis milk is a menace to the human

Therefore be it resolved, that we cooperate to our utmost in the campaign to provide penalties for violations being made by the Michigan live stock thereof. producers for the eradication of tuberculosis, for better sires, and for better enact: markets for their stock

bers the best possible protection at the lowest possible cost.

passed by the annual delegate rangement with a reliable insurance of rain or snow. meeting of the Michigan Live company. If, upon investigation the Section 2. Any company, corporation to the executive committee of the Stock Exchange in session at M. A. C. board finds the collective insurance or individual subject to the provision Michigan State Farm Bureau to allow Whereas, during 1920 an aggregate proposition worthy of action, they are of this act who refuses or neglects to a duly authorized representative of the

Propose Bill for Protection of Stock.

Resolved, that the following propos-

Proposed bill: To compel corporations, companies or individuals owning ject to an additional fine of dollive stock is being shipped, to construct and maintain covered yards and

The people of the state of Michigan

Section 1. All railroad companies, Whereas, there are now over fifty other companies, corporations or indi-

Whereas, this loss must be considered by the Michigan on the solution of the s ed by meat packers in fixing prices Live Stock Exchange, and that this onment in the county jail for not more stock industry; and be it further recorporation or individual shall be sub-tive. tional period of thirty days, of non-Granger. compliance with the provisions of this

Endorses Farm Bureau.

Michigan cooperative live stock ship-viduals owning stock yards in this Stock Exchange hereby endorses the treasurer, E. A. Beamer, of Blissfield. ping associations, including about one state from which a minimum of fifty work of the Michigan State Farm Bu. The new officers are to be elected by quarter of our state exchange mem-deckloads of live stock are being ship-reau and agrees to cooperate with the the new board. bers, carrying transit insurance; and ped yearly shall within (state time) Michigan State Farm Bureau in becomwhereas, our state live stock exchange after the taking effect of this act con- ing an organized department of same, ered to investigate the possibilities of is interested in securing for its mem-struct and maintain thereafter, roof in accordance with its recently estab-establishing cooperative commission covering at said yards of at least lished policy; and until such time as houses in Detroit to compete with square yards for each full seventy-five the Michigan Live Stock Exchange those privately owned. Ninety per Resolved, that the delegates at this deckloads of live stock shipped there- shall become a legal department of the cent of the stock handled by Detroit convention authorize the board to in- from yearly. Roofing shall be of such Michigan State Farm Bureau, and in houses now comes from Michigan covestigate the advantages to be gained material and construction that it will order to immediately facilitate cooper- operative associations it is said .- H.

HE following resolutions were through some collective insurance ar protect live stock from ordinary storms ation between these two organizations, be it resolved that a request be made comply with the provisions herein set Michigan Live Stock Exchange to sit forth shall be guilty of a misdemeanor in ex-officio capacity with said farm and on conviction thereof shall be fined bureau executive committee to act in resolution be referred to the legislative than days, and upon continued re-solved, that the board of directors of Whereas, tuberculosis in hogs is committee of the State Farm Bureau. fusal or neglect to comply with the the Michigan Live Stock Exchange be provision herein named said company, empowered to elect said representa-

> The new board of directors elected stock yards in this state from which lars, or imprisonment in the county by the Michigan Live Stock Exchange jail for not more than days, or consists of George Boutell, E. A. Beamboth such fine and imprisonment in the er, C. J. Miller, E. E. Compson, M. W. discretion of the court for each addi- Stewart, E. K. Munson, and P. M.

> > Retiring officers are: President, Lee Harrison, of Constantine; vice-president, C. J. Miller, of Union City; sec-Resolved, that the Michigan Live retary, L. E. Willet, of Laingsburg;

The board of directors was empow-

National Tractor Show Shows Progress

New Designs Are Conservative and Thoroughly Practical

most complete exhibition of farming the farmer.

life on the farm more enjoyable.

entire week and lunch stands were lo-farming. cated in each building. Everything pos- The show was marked by great ad- hibits. The difference in the wear and hibits-all presenting the idea of powsible for the comfort and convenience vances in the construction of imple- strain of tractor-drawn implements ov- er applied to farm operations—could of visitors was provided. Covered pas- ments and machinery, which are drawn er horse-drawn implements is being do nothing but praise the completeness sageways between the buildings and and operated by tractor power. Sim- recognized more and more by imple- with which the idea was presented. mammoth heating plants in each build- plicity of operation, control from the ment engineers. New designs and con- Early attendance, in spite of rain and ing protected visitors from cold and seat, better materials and a higher struction have been largely governed inclement weather, gave a good indi-

gan back of each exhibit. How it worked how to take care of it, how to operate it-in other words, service and education was the aim of every exhibitor. Detailed information of every kind was

tor Show held in Columbus last why power farming is a practicable their product, making it possible for Grain separators are being built small week was without a doubt the thing, not only to the dealer but to the spectator to see and understand enough for the individual farm.

machinery ever held in this country. In addition to the educational fea- separators, sufficiently small for the and seedbed preparation tools, larger It not only reviewed the rapid progress tures found in each exhibit, a regular needs of individual farms were there units demonstrated the fact that one that has been made in applying me-program on tractors and their opera- in far greater numbers than ever be- man is able to control a larger number chanical power to farm operations but tion was arranged by the management. fore. Removable panels and cut-out of operations. This fact in a large it forcibly drew attention to the won- Motion pictures on power farming were sections with the machine in motion way accounts for the economy of tracderful possibilities that gasoline and popular. The lectures on power farm- made the principles of their operation tor power and the popularity of power kerosene can bring to the American ing: Adapting the farm to power, de- plain. The idea of standardization is farming. Quite a few suggestions and farmer. No one who inspected the termining types and size of tractors to being accepted and rapidly developed changes in implement design were preeight large exhibition buildings, the buy, the trend of tractor design, igni- by manufacturers. This was particu- sented, a number of which will no permanent home of the Ohio State tion trouble, tractor hitches, lessons larly noticeable in the products of trac-doubt pass the test of service and be Fair, devoted exclusively to power from a tractor survey, the tractor and tor manufacturers who are producing accepted as special tractor implements. farming machinery can help but visual-belt power, tractor service, tractor trucks. The same engine and parts use of the tractor in soil preparation, and McCuen and finally a frank discus- by one manufacturer. planting, harvesting and other farm sion by four real farmers on what the operations; the use of the motor culti-tractor did for them rounded out the first public appearance. A small steamvator in planting and cultivating row- educational program. These men must driven tractor for small farm use, of with those of former years, one thing ed crops; the use of stationary en- be congratulated on the able way they a design radically different from the is evident and encouraging. gines in lighting, pumping water, milk- handled their subjects and the interest ponderous steam tractors, attracted and implement engineering is making ing and other services that liquid fuel which developed at these lectures in- considerable interest. Several compa- progress. Freak designs were not in can perform to make the burdens of dicated that their efforts were well nies are working along similar lines, evidence. New designs are conservathe farmer lighter, to enable him to worth while. The educational exhibit so it seems entirely possible that the tive and practical. Engineers are becut down production costs, to make of the American Society of Agricultur- small steam-driven tractor may win a ing guided by past experience and are al Engineers was a worthy one-large- place in power farming, achieving to not attempting radical designs with Manufacturers spared no expense in ly a compilation of data on power farm- some extent the supremacy which the which they hope to revolutionize the ably presenting the power farming ing by the agricultural engineering de- gas engine now holds. Several foreign tractor industry. This fact will un-There was no admission fee, the partments of the state universities. makes were also exhibited. There were doubtedly have a beneficial effect on only requirement being the securing of The Society of Automotive Engineers numerous exhibitions of small garden new developments. a pass by registration. The large din- also made the show an occasion for tractors and implements. ing hall on the grounds was open the a meeting and program on power Tractor-drawn implements was the huge success. Any spectator who view-

grade of workmanship characterized by that fact. Implement units are be- cation of the interest of farmers and

A number of new tractors made their hibited.

HE Sixth Annual National Trac- available, the intention being to show had revolving, skeleton sections of meet the demand of tractor service. the operation of their machines, Grain the other hand, especially in tillage

Companies manufacturing tractor acize what farming will be in the future, tools, community purchase of tractors, can be used interchangeably in either cessories were very well represented. The idea back of the show was not housing the tractors, by such promitruck or tractor. Belt power take-off The latest development of magnetos, to sell tractors. Power farming is nent agricultural engineers as Olney, for trucks was featured by a number wheels, carburetors, engines, spark broader than that. It includes the use Dickerson, Davidson, Sjogren, Scoates, of concerns. Complete seedbed prep- plugs, special hitches and steering deof the truck for hauling purposes; the Blasingame, Aitkenhead, Duffee, Ives aration in one operation was featured vices, governors, bearings, lugs and so on were lavishly, though tastily ex-

In contrasting the product of 1921

idea back of implement companies' ex- ed the three hundred and fifty-six ex-Education and service was the slo- almost every exhibit. Many exhibitors ing built more and more in sizes to dealers and even the general public in the new era of farming operations. The management of the show, particularly Mr. Wraley and the Columbus Tractor Club, deserves praise for the way the show was managed.



Rye on Sweet Clover Stubble

mer to a striking demonstration of the the Soils Department at the Michigan effect_of sweet clover stubble on rye Agricultural College, visited the field on the farm of O. P. Churchill in Bliss in July and cut one-fourth square rod township in Emmet county.

plowed and sowed to rye. The follow



er stalk and heads, better color and run. Other soils in Emmet county, thriftier condition all around. The Michigan, need similar treatment. grain when threshed out was large, Sweet clover will turn the trick. plump and had a good appearance. The

THE attention of the Emmet County writer's attention was called to it and Farm Bureau was called last sum- in company with G. M. Grantham, of samples of rye growing on the sweet In 1919 Mr. Churchill had a strip of clover, and rye adjoining but not havsweet clover running across a field, ing the benefit of the sweet clover The first crop was cut for hay and the stubble. These samples were sent to second crop was used for the same the college and threshed out. The purpose. The whole field was then yields were as follows: The rye on the sweet clover stubble yielded seventeen bushels of grain per acre and 2,200 pounds of straw. Where there was no sweet clover, the yield was eight and a quarter bushels and 1,440 pounds of straw. The presence of the sweet clover stubble doubled the yield of grain and gave an increased straw yield of 760 pounds. The accompanying illustration shows Mr. Churchill with the two bunches of rye cut. The difference can be readily seen. They were both cut from equal areas.

Here was a startling demonstration ing summer there was a noticeable of the benefit of sweet clover and ordifference in the rye growing on the ganic matter on a crop of rye. If it sweet clover stubble. A quicker start will do it on rye it will repeat on other was made, it was heavier stooled, larg- crops. The soil was light and had been



low-priced crop"? Ever notice that the reverse is equally true—and that today's situation should therefore spell OPPORTUNITY to the farmer who has "his ear to the ground and his eye to the future"?

He knows that over-production never occurs two years in succession. He is assured better distribution of next season's crops because of greatly improved transportation conditions.

That is the "silver lining" the wideawake farmer sees on the cloud of low prices now passing. While others are waiting, he is acting. And when the rise comes his crops are ready; he "cashes in".

He is going to use fertilizers—good fertilizers. For he is the kind of farmer who never thinks of missing the profitable extra yield they produce. He is ordering them now—to avoid last-hour rush and probable delay in getting them.

A A C Fertilizers carry extra-yield assurance because they are good fertilizers. They are good fertilizers because they are made RIGHT. Have you ordered yours?

WRITE for our fertilizer suggestions (mention your soils and crops) and booklet "How to Get the Most out of Fertilizers". Free-The American Agricultural Chemical Company

CLEVELAND

CHARLESTON COLUMBIA DETROIT

WRITE for the A A C Agency if we have no dealer

Address nearest office
veland Jacksonville
krleston Los Angeles
umbia Montgomery
roit New York

Good Roads-Motor Trucks

portant factors in determining the speed.

load of five tons, running at a speed of over which these trucks are operated, tires used, their condition, and speed frost or inferior materials. at which the truck is operated, are With the rapid growth in number of

the gross weight of truck and the load of local freight. it is intended to carry. The tires of The farmers should not be misled by the same tonnage of freight to be mov- trucks.-W. G.

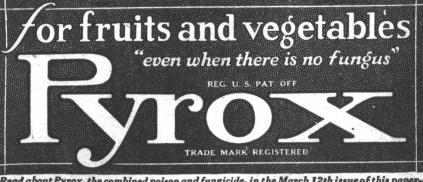
F^{OR} the purpose of ascertaining the ed, and if several small trucks take essential facts relating to the im. essential facts relating to the im- the place of one of large capacity the pact, or wearing effect on the road, additional weight to be carried over of motor truck traffic, the United the road, represented by the weight of States Bureau of Public Roads con- the trucks, exclusive of load, amounts ducted this year an elaborate series of to an increase of fully fifty per cent. tests, using apparatus in many cases With the large truck prohibited there specially designed for this purpose, is a direct incentive to overloading the The complete report of these tests has smaller sizes, with the result that the not yet been published, but the prelim- tires are forced to carry a much greatinary report establishes certain facts er load than they should bear, thus inthat show the popular opinion in re-creasing the danger of breaking or gard to gross weight and road damage cutting the road surface. It must be to be wholly unfounded, and that it is self-evident that one large truck, with the "unsprung weight," or weight not wide tires, and light unsprung weight, sustained by springs, the tire equip- moving at a slower rate of speed, will ment, speed at which the truck runs, do less damage to the road than three and the overloading of trucks beyond small trucks with relatively heavier their rated capacity, that are the im- unsprung weight, running at a greater

That the large trucks are unjustly Thus in one series of tests it was blamed for road damage is shown by shown that a three-ton truck, with a the fact that some sections of a road fifteen miles per hour over a two-inch together with smaller trucks and pasrut, had an impact, or crushing blow, senger cars, will be badly worn, while of seventeen tons. A five and a half- adjoining sections of the same road, ton truck with a load of five and a subject to the same traffic, are in good half tons, so designed as to have a condition. If it was the large truck light unsprung weight, under the same that caused the damage it would have conditions had an impact of twelve had the same effect on all the road tons, or only sixty-eight per cent of over which it travelled. That it did that of the smaller truck, showing that not have this effect shows that the the overloading of the small truck, and failure of the damaged section was due its heavier unsprung weight, greatly to other causes, generally some defect increased its impact. It was also in road construction, such as insuffishown by these tests that the kind of cient foundations, lack of drainage,

factors in determining impact. When cooperative associations for marketing the rate of speed is increased there is crops and hauling farm supplies by an increase in wearing pressure on the rural freight and express service, the demand for the motor truck in the There are other important facts that country districts will steadily increase. must be taken into consideration in It has been demonstrated by twenty dealing with this question. The vari- years' experience that the large capaous sizes of standard types of truck are city truck is the most economical and equipped with tires proportionate to efficient type for moving many classes

the larger trucks are made sufficiently repetition of the assertion that it is wide to provide that their pressure on the large truck that destroys the road. the road surface shall be the same as They should study the question for that of the smaller types, so that in themselves, and be guided by facts of reality the inweight on a given area of official record, so that their influence road is no greater than that of the may be used to secure fair treatment smaller truck with narrower tires, for the class of truck that has been Again, it must be remembered that pro- shown to have no more injurious efhibiting the use of large trucks leaves fect on the road than the smaller

FERTILIZERS



Read about Pyrox, the combined poison and fungicide, in the March 12th issue of this paper-

Grown From Select Stock -None Better - 50 years selling seeds. Prices below all others. Buy and test. If not O.K. return and I will refund. Extra packets sent free in all orders I fill Send address for Big Catalogue illustrated with over 700 pictures of vegetables and flowers of every variety R. H. SHUMWAY, Rockford, III.

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BALTIMORE
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PHILADELPHIA RUTLAND, VT. ST. LOUIS SAVANNAH, ETC.

SENATOR DUNLAP Strawberry Plants at \$5.00 per 1,000 or \$4.00 per 1000 in lots of 4000 or more. For Particulars write Flower View Farm. C. H. STANLEY, B. 2, Paw Paw, Mich.



OFFER No. 310. Michigan Farmer, one year.....\$1.00 Pictorial Review, one year..... 3.00 Woman's World, one year50 Total value\$4.50 All for \$3.40.

OFFER No. 322. Michigan Farmer, one year.....\$1.00 People's Home Journal, one year 1.25 Woman's Home Companion, 1 yr 2.00

Total value\$2.50

All for \$2.00. OFFER No. 324.

Michigan Farmer, one year\$1.00

Christian Herald, one year..... 2.00

Woman's Home Companion, 1 yr 2.00 Total value\$5.00 All for \$3.75.

OFFER No. 313.

Michigan Farmer, one year.....\$1.00 Breeders' Gazette, one year.... 1.50 Total value\$2.50

Both for \$2.00.



ROBES

from all colors in the nat-ural color. Cataloges, circu-lars, lining samples free.

W. W. WEAVER READING, MICHIGAN Custom Tanner, 30 Years' Experience.

FURS

Dealer in Raw, dressed, and ready made furs. Do you want manufacturers prices for your Furs. Write to OLIVER DIX, Salem, Mich. for price list.

All for \$3.30.

OFFER No. 323.

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McCall's Magazine, one year.....\$1.50

American Woman

J. H. DOWNS, 38 Roosevelt Ave., Jersey City, N. J., Factory, Williamsport, Pa.

NO CAR COMPLETE

Without the Garl Electric Cigar Lighter. Guaranteed to outlast the car. No cord or delicate parts to wear out. Can be passed to any member of car. Can be attached in 15 minutes. Money refunded if not satisfactory. Price \$2.30.

MANUFACTURERS SALES COMPANY 275 South Main Street,

FORD OWNERS ATTENTION A McGILL AUTOPOWER attachment and your Ford make a 12 H. P. power plant. Reduced to \$35.00. Ford make a 12 H. P. power plant. Reduced to \$35.00. Send for descriptive circular. H. F. HANNIGAN, 2161 Bewick Ave., Detroit, Mich.

FARMS AND LAND FOR SALE

BARGAIN for guick sale som timber, spring brook, 4½ m. Hastings, @ r. St. tr.line fine new modern 8 r. bungalow, bath, running water shady lawn, good barn, other farm bldgs., also fin 60 A. with B A timber near by, equipment if desired write Will ITREGO, H. S. Hastings, Mich

Farm Bureau Notes

PRESENT prices for farm products Michigan farmers operate their own will not cause an evodue from Will low prices for farm products 1,961 Michigan farms. cause any marked number of farmers The Michigan public utilities comin your county to retire this year?" mission has opened for investigation Four counties-Missaukee, Otsego, every rate in the state, and the Michi-Grand Traverse and Benzie said gan Traffic League is calling a meetcounty said that ten per cent might league. retire temporarily to take up some The Michigan State Farm Bureau other vocation to get some ready mon- has secured a second break in the ferey. Oceana saw five per cent about to tilizer market, which, based on an estiquit, and alkaska included the grass-mated spring requirement of 60,000 hopper scourge in the forces driving tons for the state, and figuring in a tion to the city. Others believed that the farmers of the state considerably the poorer lands would retire.

through its traffic department, is work- a movement to secure for Michigan ing to secure a reduction in the mini- farmers through rates and through mum weights fixed by the railroads for routings on shipments going over eleccarload shipments of live stock. Its tric and steam lines. Separate rates traffic manager is appearing before the and routing, which prevail at present, Interstate Commerce Commission are discriminations upon farmers livhearings on the subject. The farm ing along electric lines, and upon those bureau maintains that the present min- having need of both lines for any imum weights cause the farmer to pay single shipment, charges the farm bufor weight he can't get into the cars. reau. Hearings on the subject are now

More than eighty-three per cent of being held at Detroit.

will not cause an exodus from farms, twelve per cent higher than the Michigan farms, according to early figure for Ohio. Michigan has 206,689 returns from twenty-three of seventy- farms, 172,310 of which are operated by five county agents answering the Mich- their owners, and 32,689 are farmed by igan State Farm Bureau's question, renters. Salaried managers operate

"No." Four others said that only a ing in Grand Rapids on February 27 to great industrial revival with no im- go over the matter and see what acprovement in the rural situation could tion it will take. The farm bureau break their farming ranks. Barry traffic department is a member of the

two per cent of her farming popula- reduction secured in January, will save only a few farmers, and only those on in excess of half a million dollars on this commodity.

The Michigan State Farm Bureau, The State Farm Bureau is pushing

Wisconson Farm Bureau

OTING delegates from twenty- be compelled to dump his crops on the organization of the farm bureau into farmer is the one to do it." every corner of the Badger State.

States, not Russia. Sanity will rule— the executive committee for action. ican Farm Bureau Federation at any, ed after considerable discussion. time to the Wisconsin Farm Bureau. The budget committee brought in a that are found in city homes.

farm bureau movement now," said Mr. ferred to the executive committee. get started."

Mr. Howard vigorously attacked the mously adopted. statement recently given out by a well

banking system of the country must under way for as short a time as has be changed so that the farmer will not the Wisconsin Farm Bureau.

three of the twenty-five organized market at one time in order to meet counties attended the first annu- his notes. "The farmer must be financal meeting of the Wisconsin Farm Bu- ed," he said, "so that he can send his reau Federation, held in Madison. De-crops to market as they are needed. termination was the keyonte of the It's a case of either the speculator or meeting-determination to push the the farmer carrying the crops and the

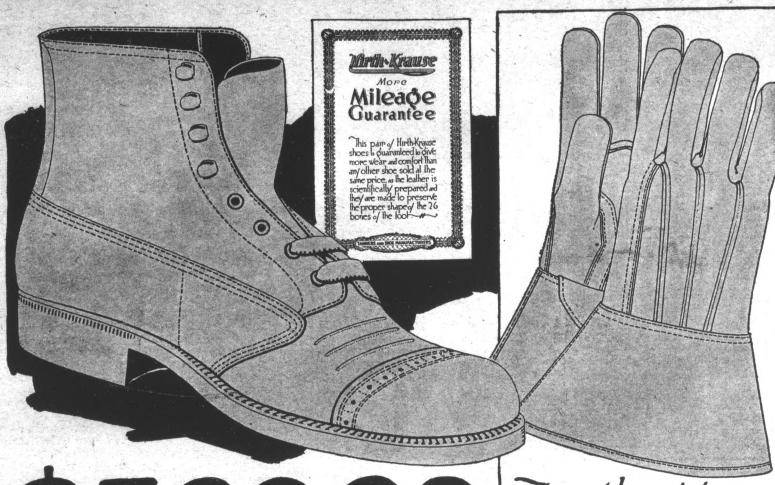
The resolutions committee brought George McKerrow, of Waukesha in resolutions expressing pleasure that county, was elected president, replac- the farm bureau movement had come ing George W. Hull, of Rock county, to Wisconsin, favoring cooperative who retired because of sickness in his marketing, urging all possible aid for family. James Murphy, of Walworth the cheese federation and the milk procounty, was elected vice-president, and ducers' associations, asking the Uni-C. A. Keys, of Fond du Lac county, versity of Wisconsin to investigate the was unanimously reelected treasurer. feasibility of distributing market re-The feature of the meeting was the ports by wireless, thanking George W. address of President J. R. Howard, of Hull, the retiring president, for his the American Farm Bureau Federa- work to help the farm bureau, and urgtion. Optimism was the theme of Mr. ing the legislature to pass such laws Howard's address, and the audience as may be found necessary to stop disinterrupted him frequently with ap- crimination against cooperative selling plause. He said he was hopeful of the and buying organizations. These were future, "because I live in the United unanimously adopted and referred to

not chaos. There has never been a The constitutional committee reportbetter time to stick to the farm." Mr. ed in favor of several minor changes Howard pledged the aid of the Amer- in the constitution, which were adopt-

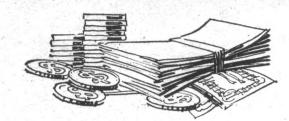
He also pointed out that the Farm Bu- budget based upon an expected income reau Federation was not antagonizing of \$40,000 This committee also urged any other farmers' organizations but a state-wide conference of cooperative was cooperating in every possible way. shipping associations, with a view to The farm home is the heart of the having them work with other states. country, said Mr. Howard, and there They also recommended aid in reorshould be in them the same comforts ganizing the Southwestern Sugar Beet Growers' Association. These resolu-"All but two states have started the tions and budget were adopted and re-

Howard. "These two are Louisiana and The legislative committee recom-Arkansas, and I had a wire from Sec-mended that the president, vice-presiretary Coverdale, who is in the south, dent and secretary act as a general this morning saying that before he legislative committee to aid in securcame home, he would help Louisiana ing the passage of laws of benefit to the farmer. This motion was unani-

The treasurer's report showed reknown business statistician that the ceipts of \$17,375, expenditures of \$7,farmer is inefficient. "The farmers are 470.48, and a balance on hand of \$10,the most efficient people in the world," 318.77, with about 2,500 outstanding he declared, amid a roar of applause. bills. This speaks well indeed for a He further pointed out that the farm bureau federation which has been



\$300,00 in Prizes



Contest Open to Everybody

For years we have been advertising our shoes to the good people here in Michigan.

For years Michigan People have worn and continued to buy our shoes.

The shoes make good; everywhere they tell us so. What kind of an advertisement would you write for such a shoe?

Try your hand at it. Three hundred dollars in prizes will be paid for the thirty-six best letters on this subject, divided as follows: First prize \$100.00, Second prize \$25.00, Third prize \$10.00, next thirty-three best advertisements will receive a prize of a pair of \$5.00 Hirth-Krause More Mileage Shoes.

This Contest is open to everybody. To help you, we have prepared a circular on the contest, giving all the particulars. This circular also gives you a description of the Shoe. Better study up on this. Or go see the shoe. Or better yet, buy a pair and wear them, find out about them for yourself.

Then sit down and write the kind of an advertisement you think we ought to have for such a shoe.

Send for the descriptive circular. Use the coupon.

Tor the Man who Works

Genuine Horse Hide Gloves

Just the kind of a glove a man should have who has to use not only his head but his hands as well.

Built of Mileage Leather— Therefore Smileage Quality.

In case of a tie, prize will be paid to both contestants.

Contest closes midnight, April 15th. Prize award to be made before May 10th.

Use this Coupon

COUPON

Please send me your contest circular. Also tell me who sells Hirth-Krause More Mileage Shoes in this district.

Name_____Address

Town

Hirth-Krause Co., Grand Rapids, Mich.

Be Sure

Be just as sure when you buy clothes as you are when you buy live stock!

Long experience has made

you judge of the things you work with daily.

Our daily work, for 75 years, manufacturing men', clothing, has taught us what is the most dependable fabric for your clothes-year in and year out.

For wear-service-looksmost-for-dollar-you can't beat Clothcraft Scrge Specialstested by over a half million

This largest single clothing plant in America, specializes on common-sense clothing makes the greatest number of -and sells them for less. Wouldn't you like to have actual samples of these long-wearing Clothcraft Serges, in blue, gray, and brown, just to test for yourself?

A little folder with a big message is yours for the asking write for the folder today and feel safe the next time you need clothes. Just write, "Send Serge Folder" and

THE JOSEPH & FEISS CO. 625 St. Clair Ave., N.W., Cleveland, Ohio

Record Garden

biggest yields—the best your garden can grow. Use the Isbell Catalog as your guide. It shows varieties almost unlimited of the finest vegetables, many prize winners of international reputation—all produced from

NORTHERN GROWN

Plant Northern

Grown Seeds

Assure yourself of the

ISBELL'S

good and better out of the way. bined under each address.

Prof. C. H. Burgess stated that the of five of eastern poultrymen in busi- to make hatchable eggs.

write for information on the handling of as many as 15,000 hens, thus showing their inexperience at once. When they are told that 1,000 hens eat fortyfive tons of mash and forty-three tons of grain per year they realize somewhat the problem of caring for 15,000 hens. Professor Burgess says that what Michigan needs is one hundred good hens on every farm.

The fanciers are a great help to the poultry business and it pays to keep pure-bred stock. Six years ago everyone seemed to aim at utility alone. Before that there was a time when everyone wanted ribbons and utility was neglected. A union of the two is important and necessary. The hen of toeggs. For example, a flock of White bation. uniform flock is best.

Diseases Take Large Toll.

sick. In cases of tuberculosis the post- all times. mortem may show that the liver is and the remainder burned.

cleaned. This means the ceiling and water. windows as well as the floor and dropclean soil whenever possible.

second and the third is roup. Roup is indicat- chicks. ed by the offensive odor. Spray permanganate solution in the roof of the pox.

Finding the Good Stock.

By R. G. Kirby HE meetings of the Poultry As- the winter layers and use them as is consumed on the journey to the buysociation were largely attended breeders. Use good-sized eggs of stand- er, who does not receive them until by practical breeders and in this ard weight. The standard weight of they are ready for food. report the writer will try and place as eggs is two ounces each, or twenty- Take the chill from the drinking wamuch of the practical information four ounces per dozen. To test the ter that is given to young chicks. Do gleaned from the series of meetings as vigor of newly-hatched chicks place a not give too much water at first. The can be condensed into a small space. chick on its back on a board. If it chicks hatched out in a stolen nest The points must of necessity be rather turns over and jumps up and is ready might only get the moisture on leaves disconnected because of the large for business, it is a good chick. If it and grass in the morning. Yet the old

Poultry Association Meetings

Pointers.

duce the type of birds that other men breeding stock. Meat scrap and ground inspection. want. This means a combination of bone are the best for layers. Among Dry mash is good for the first feed utility and fancy qualities. There are the succulent feeds are sprouted oats, for chicks. Give the amount they will now more good flocks in Michigan than mangels, cabbages and ensilage. The eat in ten or fifteen minutes and feed ever before and culling has saved a sprouted oats can be used at the rate four or five times a day. Give scratch feed bill estimated at \$2,000,000 per of a cubic inch per hen per day. The feed after a few days to make the year. In some sections only one out use of green food in the winter helps chicks dig in the litter. Protein is need-

ness. In other eastern sections it is Artificial lights have been found to in-blood and muscle. Enough protein canone out of ten. This explains the high crease the vitality and vigor of a flock not be placed in the scratch grain and prices received for eggs this winter in as well as the egg production. Stop the best mash feeds run sixteen, eightspite of comparatively low feed costs, ping egg production starts the moult, een or twenty per cent protein. The The college departments are now re- The clippings from meat can be cook- same kind of milk should be used at ceiving many inquiries from men about ed and fed mixed with bran and it will all times. Do not give sour milk one

color and produce a good number of in which to keep eggs saved for incu- Professor Burgess and his department

Test all brands by pouring boiling wa- poultry industry in Michigan. ter on a sample. If the odor is offen- He advises poultrymen to breed from

to contain gritty nodules. The remedy give it once a month in a moist mash, above man in breeding methods. is to kill the infected flock. Then the This is considered a very good tonic The real fancier today wants a union

The first stage of a cold is the wa- is worth all it costs. Buttermilk has of other colors. is the swelling proven fine as the first drink for young. In raising chicks Judge Card fights

Feeds by Judge Hale.

mouth and nostrils for colds in the many interesting points about poultry He says the poultryman must take first stage. Paint iodine on chicken feeding. He stated that vitamines are himself by the back of the neck and little but they are contained in the leaf there would be more presidential tim-In answer to a culling question, Pro- of plants, the yolk of eggs and milk. ber if most of us would do more and fessor Burgess states that Mr. Fore- The great loss among chicks occurs learn more in 1921 than we did in 1920. man is now at Guelph finishing his during the first ten days because the Other points from his lectures are work, but will be back in April and chicks are fed too soon or too often, as follows: Standard types do not deavailable to help with the culling in The stuffing causes an impaction of the tract from egg production. It does not Michigan. They found a fraction of digestive system. Two-thirds of the pay to caponize Leghorn cockerels. In less than two per cent difference be- bowel trouble is simply caused by di- an open-front coop near the roosts the tween pullet and hens' eggs for hatch- gestive disorders. Chicks do not feed temperature will be fourteen degrees ing when the pullets were well devel- until forty-eight hours old, and sixty higher than outside the coop. Of oped birds that had not been heavily hours is better. That is why day-old course, this will vary with the type of forced for winter eggs. It pays to mark chicks often do so well. The egg-yolk

range of information which was com- lies there and weakly yelps it is no hen makes them exercise and probably they get little water, and yet they thrive and are husky when the mother problem of the poultryman is to pro- Milk is the best animal food for the hen brings them up to the house for

ed to make everything about the chick ness five years ago are now in busi- Here are some good egg pointers, but fat. This includes feathers, bone, to go into the poultry business. Some be good for egg-production. Fifty to day and sweet milk on the next. Lack of exercise breaks down hens and hens that are forced may produce eggs lacking in fertility.

Lauds Michigan as Poultry State.

The next speaker, Judge W. H. Card, of Manchester, Conn., is a poultryman with years of practical experience, a keen sense of humor and a remarkable way of making scientific poultry problems easy to understand. He says that no state has increased in the value of its poultry products as the state of Michigan. In 1915 the value of products was estimated at \$5,000,000. In 1920 it is placed at \$27,000,000. Judge Card has recently been in forty-one states and says that no state has progressed like Michigan in the quality of morrow will have uniform shape and sixty degrees is the right temperature its flocks. He gives great credit to for their activity in culling work and Leghorns can be of all types, but the High-grade meat scrap is safest other lines which have boosted the

In speaking of poultry diseases, Pro- sive it is not fit to feed the hens. The their highest specimens in vigor and fessor Burgess said that 100,000 hens eggs from tankage-fed hens are not so stamina and strive to make the beautidied of disease north of Grand Rapids good in flavor as those from hens that ful useful and the useful beautiful. He last year, according to their estimates, are fed meat scrap. Don't feed marble gives line breeding the credit for the Hens with tuberculosis are usually with the idea of giving the hens both development of much fine poultry. Outlame but all lame hens do not have it. lime and grit at the same time. The breeding is crossing unrelated speci-The loss of appetite in a hen is one of lime in the marble is not available, mens of the same kind. Cross-breedthe first signs of disease. It is said Granite makes good grit and it pays to ing simply means crossing two differthat only a goat or a man will eat when keep oyster shells before the hens at ent breeds. Line breeding means breeding from related stock. He says that If epsom salts are given to hens use the wild birds are bred by a single normal but in most all cases it is found one pound to one hundred hens and mating system and that nature is

birds found normal can be marketed to keep the digestive system in good of utility and fancy, according to Judge condition. Do not give the salts in Card. He also believes that inbreed-A poultry house must be thoroughly water or the hens may not touch the ing is all right if birds of good stamina are used. The undercolor of fowls If hens have all the milk they can affects their market value. Buyers co ping boards. To disinfect a poultry drink the amount of meat scrap in the not want a black pigment in the skin yard it must be plowed and lime scat- dry mash can be cut in two. Professor of the birds they buy for the table. tered. The chicks must be raised on Burgess is a strong advocate of milk in That is one reason that the White Legthe poultry ration and believes that it horn is more popular than Leghorns

> red mites, hawks and crows and takes the chicks from the brood coops as Judge D. E. Hale, of Chicago, gave soon as they are old enough to roost. essentials of life of which we know make himself do things. He believes

(Continued on page 245).





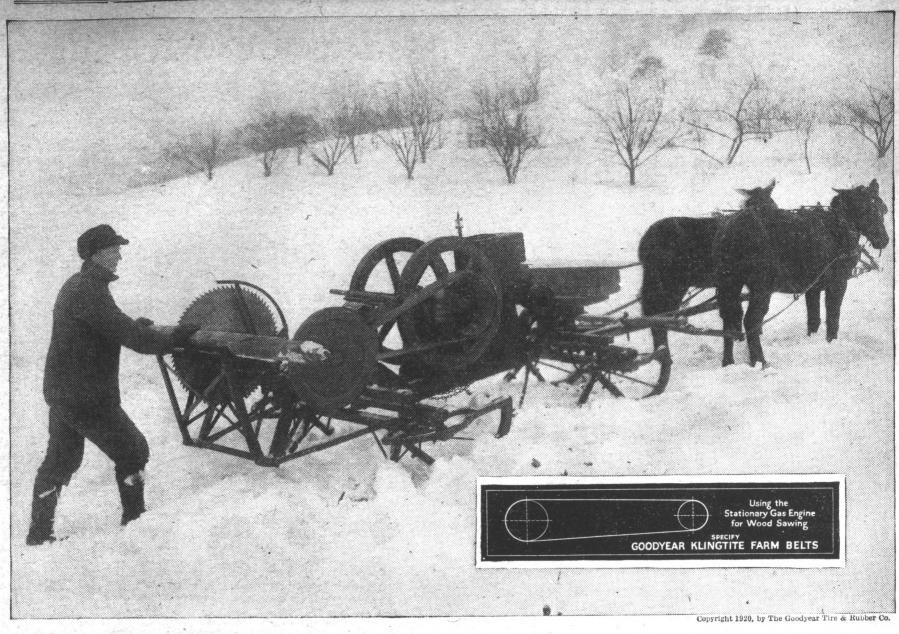
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Livestock in Michigan

HE annual inquiry relative to the lack of demand for and falling prices quantity of live stock on farms of dairy products.

Michigan than one year ago, and that thirty-four per cent. the price of each kind has declined from the high level of last year. The the low market price of wool has distotal value is estimated at \$174,468, couraged many sheep owners, and 000, while that of one year ago was large flocks have been reduced and \$236,231,000, the highest on record. many small flock's sold. However, the The quantity and value of each kind number of lambs on January 1 was has also declined for the United States somewhat greater than the previous as a whole. The average value per year, due to the fact that the markethead is higher in Michigan than for ing has been slower than usual. Oththe United States, for all except mules and cattle, excluding milch cows.

use of automobiles, trucks and trac- estimated number is 2,135,000 with a tors is displacing greater numbers of total valuation of \$14,731,500. Last horses each year. A less number of year the number was 2,224,000 and the colts has been raised in recent years value, \$26,243,000. and the amount of young horses on farms is considerably less than former to reduce the number of swine, the ly. The total number of horses is estimated to have decreased four per cent during the last year in the state, a loss of 26,000. The average value per ing. Corn is plentiful and many-farmhead is placed at \$93, which is within two dollars of the price one year ago.

Mules.-Very few mules are raised in the state, the number being chiefly states. The number does not change materially from year to year. The estimated number is 4,000 and the averwith \$99 last year.

Milch Cows .- The number of milch cows has declined to the extent of two per cent during the year. The present estimated number is 856,000, or 17,000 less than one year ago. The present average value is \$70 per head. Last year it was \$96. The total valuation is approximately \$23,000,000 less than on January 1, 1920. The loss in numbers and valuation is mainly due to the

was made on January 1 by Charles J. Other Cattle.-Other cattle have DeLand, Secretary of State, and Verne been reduced in numbers during the H. Church, Agricultural Statistician, year from 773,000 to 727,000, or six per United States Bureau of Crop Esti- cent. The present value is \$21,180,000 mates. The report shows a less num- as compared with \$33,084,000 on Januber of all kinds of farm animals in ary 1, 1920, representing a loss of about

Sheep.—The lack of demand for, and erwise the loss in number of sheep would have been greater than the esti-Horses.-The constantly increasing mated net loss of four per cent. The

Swine.-While there was a tendency loss for the year amounted to only one per cent, as the declining prices and slack demand has delayed the marketers continued to feed until after January, hoping that the market would improve. Under normal conditions these would have been largely marketed durmaintained by importations from other ing December and would not be counted in the January 1 estimates. The indicated number on January 1 is 1,-435,000. The value is \$20,520,500, age price per head is \$96 as compared more than \$11,000,000 less than last

> Total Numbers and Values of Michigan Live Stock, January 1, 1921.

Kind.	Total No.	Total Value.
Horses	614,000	\$57,102,000
Mules	4,000	384,000
Milch cows	856,000	59,920,000
Other cattle	. 727,000	21,810.000
Sheep	2,135,000	14,731,500
Swine	.1,435,000	20,520,500
		· · · · · · · · · · · · · · · · · · ·

Total value \$174,468,000

Fighting Cattle Diseases

bureau officials and when Dr. Rich de- February 1. scribed how Gogebic county, in the

The live stock men in four counties herd list." and farm bureau men of the four culosis in children. counties mentioned. The proposition The county agents who have been county and in nearly every case with voix county, and Keats K. Vining, of out a dissenting vote. Committees Emmet county.-V. were appointed from each board. These

AST August when the Holstein the same. Each county sharing equalbreeders of northern Michigan ly in the salary and expense of the gathered at the Loeb Farm near Charl- veterinary. Each county is to share evoix for their annual picnic and get equally in the time of the veterinary. together, they heard Dr. T. S. Rich, The latter's activity will be directed federal inspector of bovine tubercu- from Dr. Rich's office in Lansing. losis eradication work in Michigan, de- These plans were presented to the scribe how the state and federal gov- boards of supervisors at their January ernments were setting out to eradicate session in the different counties and bovine tuberculosis. In the audience approval was given the plan. It is exwere several county agents and farm pected that the work will start about

Breeders of both dairy and beef catupper peninsula, had hired a veteri-tle in all the counties have been internary and set him to work on the tu- ested in the work and many have berculosis proposition, an idea came made application for the same with the to these county agents and farm bu-result that the veterinary employed reau men to get four counties togeth- will be more than busy. The rules er, have the supervisors make neces- and regulations as set forth by the sary appropriations, get the coopera- state and federal government will be tion of the state and federal authori- carried out to the letter. Herds qualities and go after bovine tuberculosis. fying will be put on the "accredited

Grand Traverse, Antrim, Charlevoix These counties have taken a step and Emmet, were approached by the that no counties have yet taken in the farm bureau men and county agents lower peninsula and the men in touch and much good sentiment was express- with the cattle business feel it is a ed in favor of the work. A meeting step worth while. Not only from an was held in September at the Loeb economic standpoint but from humanfarm and attended by Dr. Rich and ity side as every tubercular milk cow Dr. Hunt, of Lansing, county agents, removed lessens the chances of tuber-

was gone over carefully. At the Oc- active in the work are: Dr. J. P. tober meeting of the boards of super- Houston, acting county agent of Grand visors, a tentative appropriation of Traverse county; L. L. Drake, of An-\$1,000 per county was made in each trim county; C. W. Wing, of Charle-

The quality of the feeders is the Hounds Trial. Photos. Testimonials. ber and drew up plans for carrying on most valuable point in the whole econ-



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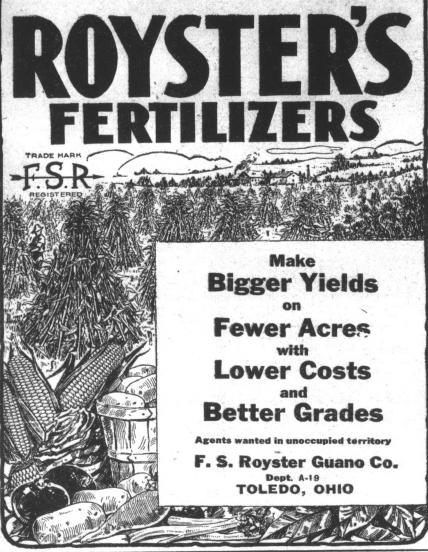
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Our Service Department

LICENSE FOR SELLING NURSERY dred dollars, and imprisoned for not STOCK.

me to get a license to sell grape plants may be well to note two exceptions to

Under the state law, persons who grow grape plants for sale are required to take out a license, and to have and to dig and sell or exchange surplus the stock inspected before it is delivered. The wording of the law is as license, follows: "Any person or persons, growing or offering for sale, in this state, any trees, shrubs, vines or plants, commonly known as nursery stock, shall on or before the first day of August, in each year, apply to the Michigan State Board of Agriculture for the inspection of said stock and for a license for its sale. A license fee of five dollars shall be paid and a bond for one thousand dollars, with sureties satisfactory to said board, and conditioned upon the compliance with this act shall be filed."

certainly include grape vines, and that would require a license. they would be classed as "nursery 'The term 'nursery stock' wherever of inspection. This applies in all cases. used in this act shall be held and conand plant products for propagation or cost of the inspection. planting."

During the last year or two the high prices of grape plants have caused inspected in accordance with the law. A few have claimed that they should in a hopper, and eat quite a lot of it. not be required to take out a license they are not nurserymen. Attendorm is called to the fact that the law does not use the word "nurserymen," much to feed to get eggs.—Mrs. G. B. but it requires "any person, or persons persons who grow or sell nursery pound of scratch grain.

and naturally are not only better post- to fat and not much of it into eggs. inspected.

ions of the law subjects one to prose- dency to become over-fat and produce cution, and on conviction may be fined a flock largely of hens which are easnot less than ten or more than one hun- ier to manage.

less than ten or more than ninety days.

While it in no way changes the re-Please tell me if it is necessary for quirements for selling grape plants, it that I raise myself on my farm.—Sub. the above. These permit persons who are not nurserymen to dig and sell shade trees from their own wood-lots, small fruit plants without taking out a

The "surplus small fruit plants" are construed to relate to strawberry runners and red raspberry suckers which may be dug along the borders of the fruiting rows and these can be sold without a license, provided the fruit grower is not a nurseryman. In this case he would be considered a nurseryman if he makes a business of growing and selling the plants. When all of the plants are dug and sold the owner could not be considered to be a fruit grower, and if the plants are advertised for sale in any way, he would The words "vines or plants" would make a business of selling them, and

The object of the law being to prestock," is indicated by the definition of vent the spread of dangerous insects nursery stock" given in many federal and diseases, it requires that all plants and state laws which reads as follows: to be shipped shall have a certificate

In some sections of Michigan many strued to mean and include fruit trees, fruit growers sell their surplus plants fruit tree stocks, nut trees, grape to dealers who have a license, but as vines, fruit bushes and fruit plants, these dealers have given a bond that rose bushes, forest and ornamental they will only sell plants which have trees and shrubs (both deciduous and received a certificate of inspection, arevergreen), field-grown florists' stock, rangements have been made to examand cuttings, scions, seedlings of fruit ine and issue certificates upon such or ornamental trees or shrubs, and all plants as they contract for, on the payother woody plants and parts thereof, ment of a fee sufficient to meet the

AMOUNT OF FEED PER HEN.

quite a number of vineyardists to propagate and grow a considerable number lay, but just take on fat. I feed my agate and grow a considerable number lay, but just take on fat. I feed my of grape plants for sale. They have eighteen hers one and a half quarts of taken out licenses and had the plants wheat in the litter in the morning and the same amount of corn at night. They have a dry mash and meat scrap

Experiments have proven that a growing plants or vines for sale to bred-to-lay hen in good condition needs take out a license." However, it would approximately seventy pounds of feed not be too much to claim that persons per year. This will consist of thirtywho grow grape vines for sale really five pounds of a properly balanced dry are nurserymen since, according to mash and thirty-five pounds of mixed the above definition grape vines should scratch grain. At that rate the daily be classed as nursery stock and sev-ration would be about one-tenth of a eral state laws define nurserymen as pound of mash and one-tenth of a

Of course, the amount of feed eaten The object of the law is to prevent will vary with individual hens. The the spread of dangerous insects and over-fat condition can usually be prediseases and our observations show vented by feeding the scratch grain in that there is really more danger of litter so that the birds have to work spreading insects and diseases on nur- for it. If hens become over-fat when sery stock propagated by the small properly fed it usually means that they growers than by the larger ones. The are not good layers and should be culllatter, of course, have more at stake ed out. The feed that they eat all goes

ed regarding the insects and diseases. If hens that are overfat seem to but are prepared to combat them. Ev- have some value as breeders it will erything else being equal, they will pay to keep them on a bran and water take more pains to see that the stock diet for a while until they begin to which goes out is free from insects and thin down. Then they can be returned diseases. Parties growing nursery to an egg-producing ration. We find stock are required to secure a certifi- that it pays to market a hen that becate showing that it has passed inspec- comes heavy with fat or use her on tion and to furnish a copy to each cus- the home table. Such eases do not tomer. They are also under bond to often occur when the hens exercise and keep a list of the parties to whom the lay. Old hens are more apt to take stock is sold so that if necessary the on heavy fat than pullets. By breedstock may afterwards be located and ing from the active and alert hens which scratch and sing and lay, it Failure to comply with the provis- seems possible to oreed out the ten-

CORN ON SHARES.

I have a piece of ground I wish to let out to plant to corn on shares. I propose to furnish one-third of fertilizer (if any is used), and one-third of the twine to harvest it. In return I want one-third of the corn put in the crib and one-third of the stalks put in the stack. Now, if that is not right and fair, what is? What is customary for corn, wheat or oats let out on shares?

V. A. G.

There is no hard and fast rule for renting land on shares. There is so much difference in the fertility of land. Good rich land in splendid condition, the renter could afford to give a larger share of the crop than he could with poor land that would not give a good crop, and the renter could afford to work for a smaller share. Anyway, a broad general rule is that the land draws one-third. If the man furnishes the seed, fertilizer, twine and does the work he gets two-thirds of the crop and the landlord gets one-third. But it is supposed that the renter harvests the landlord's share as well as his own, and I should think that if you furnish one-third of the twine, if this is good land and there is a prospect of a good crop that the renter could well afford to crib your corn and haul your stalks.

There is another element that enters into this question that the landlord should consider, and that is the character of the renter. If he is a good man and will take good care of the corn, and do it on time so that you will get a good crop you can afford to pay him a little extra if necessary and really, when all is said and done, the renting of land is a private arrange ment made between the two parties. Whatever can be agreed upon.

C. C. L.

MARKETING THE FRUIT CROP.

(Continued from page 219). realized ninety-three cents. It must be expected, therefore, that those apples must retail for fifty to sixty cents per peck. Manifestly some method must be devised by which the fruit can be gotten to the consumer for less expense.

A further serious objection to the commission system is that it allows those men to fix prices, and with any considerable amount of fruit marketed in this way it is impossible for any marketing association of farmers to go much beyond that price. And if farmers are to take their places on an equality with other lines of business it must be possible for them to fix prices the same as other business men do.

When fruit is sold to local buyers the situation is only improved inasmuch as the grower knows what he is getting for his stuff and has his money before it leaves his hands. For the buyer naturally argues that Chicago prices should be a basis for prices at shipping points, and if a bushel sells for \$1.50 in Chicago the charges for transportation and commission should come out of it, and \$1.00 should be the proper price to the grower. The consumer does not appear to derive much benefit from such a transaction, how ever. The spread between him and the producer is narrowed but little by this system.

Through the cooperative system, with a central packing house, it is possible to ship in carlots, thus reducing freight charges, and cut out one set of charges, amounting as we have seen, to fifty cents per bushel. The fruit industry has got to come to this system. and the sooner growers comprehend this and get in line the more rapid will be the progress towards a profitable system. Farmers must work this out for themselves, and they don't need any assistance from the government other than a recognition of their right to cooperative bargaining without being subject to prosecution.

Pays 500% on Money Invested."

Clarence Wright, a farmer and stockman of Perry, Missouri, makes the statement that his John Deere Spreaders pay him 500% on money invested. Mr. Wright was only one among a large number of farmers who were asked by a prominent farm publisher, this question,"Do you think the manure spreader is a profitable investment?"

Every farmer who answered this question, and who owned or used a spreader stated that the manure spreader is a highly profitable investment. You ask your neighbors who own spreaders, and they too will tell you it's the best machinery investment you can make.

A Spreader Pays in More Than One Way

These men who have turned from the old fork method of distributing manure to the machine method, find that a spreader pays big in a number of



Manure Goes Twice as Far

These spreader users make manure go twice as far—the same quantity fer-tilizes more land more effectively because the manure is evenly dis-

tributed—its value is doubled.
With the mechanical spreader, they instantly control the amount of manure put on the land—the spread can be heavy or light to meet the needs of the



Saves Extra Labor

Two men spreading with forks can not get out as much manure as one man can load and spread with a John Deere Spreader. Spreader users save and utilize every load of manure that is made because it takes less than half the time to load and spread it.



Manure Spreader Makes Top - Dressing Profitable

Only by using a good spreader can you do a thorough job of top dressing pasture and hay land, corn, etc. Top dressing has proved a mighty profitable way to increase production.

What a Few Other Farmers Said:

A. A. Baker, Winnetoon, Neb. says: "The manure spreader is the best investment a farmer can make."

Harry L. Gregg, Hamilton, Mo., eays: "By using the manure spreader the amount of labor is reduced 50%, and therefore, we are inclined to save more manure. Since using spreaders we make and haul 50% more than by the old method."

Sheldon Shaklee, of Woodhull, Ill., Route No. 2 says: "The spreader gets the biggest returns in the shortest time."

Robert Test, Stoutland, Mo., says:
"The spreader is a great labor saver
and land builder:"

Doubles Fertilizing Value of Manure

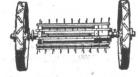
Manure—the greatest of all fertilizers is of value only to the extent that it is judiciously used. You can double its fertilizing value with a John Deere Spreader. This is the big reason why Spreader. This is the big reason why this machine makes a profitable investment at twice its cost.

Don't Delay Buying a Good Spreader

Get your order placed at once for a good spreader. Get the full advantages the spreader gives you on every load of manure you have to haul—the saving of labor, the distribution, the control of the quantity of manure to meet the soil's needs.

Look Over the John Deere Spreader

Go to your John Deere dealer and look over the John Deere Spreader. Notice its extreme simplicity - no clutches, no chains, no adjustments and only one beater.



See the Beater on the Axle

Notice that the beater and the main working parts of the John Deere Spreader are mounted directly on the This permits extreme simplicity, and working parts that can not get out of line to cause binding, heavy draft and breakage.

Drive-Gears Enclosed in a **Dust-Proof Case**



The illustration shows the beater drive gears with one side of gear case This simple gear arrangement, much like a triple-geared horsepower, insures effective transmission of power. The gears operate in a bath of oil—they will last for many years.



An Easy-Loading Box Combined With High Drive Wheels

On no other spreader can you get this valuable combination. The John Deere is so easy to load that the manure is in the box before the hard part of lifting manure comes. The high drive wheels insure extra traction and light draft.



The Straw Spreading Attachment

You can get a perfect straw spreading attachment at any time for he John Deere Spreader. With the John Deere Spreader with straw creading attachment you can utilize to the fullest extent two valuable fertilizers—barnyard manure and straw.

It's the extra bushels per acre that count-there's where your big profits lie-and here is where the John Deere Spreader fits in. Get the extra profits that its use makes possible.

Three Books You Will Want-FREE

"Soil Fertilizers" is crammed full of valuable information on barnyard manure, how to preserve it, when, and how to spread it to get the most of it. Written by Dr. W. E. Taylor, an agricultural authority.

"Better Farm Implements", illustrates and describes the full line of John Deere laborsaving inplements — a valuable reference book for your library.

John Deere Spreader booklet illustrates and describes fully the construction and operating advantages of the John Deere Spreader.

To get these books free, drop a post card to John Deere, Moline, Ill., and ask for Package S-322.

JOHN DEERE, ILLINOIS MOLINE,



SUDAN GRASS 82 Der'lb.

Wonder crop of the Age. Makes two tons grow where one grew before. Produces a hay crop in 60 days after sowing All livestock thrive on this nutritious crop May be used for pasture or cut for hay. Have recleaned rested Timothy 83.95 bu. Unbuiled Sweet Clover 54.58 bu. Clover and other field seeds at low prices. Write today for Free Samples and Big Seed Guide. American Mutual Seed Co. Dept. 231, Chicago, III.

Grown in Presque I-le County Petosky Seed Potatoes, bill selected guaranteed equal to certified stock Write for prices. HENRY HARDIES, Metz. Mich.

PEACH TREES Pear, Apple, Etc. TREES GROW Grow own fruit; reduce living cost. Improve value, appearance and production of farm, garden or or-chard. Fruit wanted everywhere. Free catalog. MITCHELL NURSERY, Beverly, Ohio Get My Low Prices of fruit trees, grape plants. It will save you money. Perfection currants 115 per 100. FEATHER'S NURSERIES, Baroda, Mich.

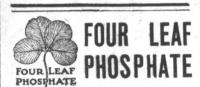
WONDERFUL SFED VALUES New Crop tested vegetable seed. Special prices on small fruit. Catalog. Bansom Farm, Br2, Geneva, 0.

Will Low Prices Make You Quit Farming?

Of course not. conditions with higher quality grain and bigger yields per acre. Years of big yields are usually fol-lowed by reduced yields. Big yields exhaust the soil, hence are followed by small and frequently lower quality yields.

Grain acreages in 1921 will naturally be much reduced. Everything points to higher prices next year.

Turn this to your advantage by meeting it with large yield of high quality. You know that under any market condition more and better grain from the same acreage and with the same labor means increased income. Use Four Leaf Phosphate, the finest ground Tennessee Phosphate rock, offering not only early but greatest availability in direct soil application.



Write us, or your local dealer can get Four Leaf Phosphate for you. THOMSON PHOSPHATE COMPANY 721 Fisher Building



Give Real Fire Protection

Protect your barns, house and buildings with Reynolds Shingles—the shingles that have withstood all kinds of weather and for 20 years have never been known to curl, split or crack. Eliminate guess-work. Buy Reynolds and know you have the best money can buy.

and know you have an buy.
Approved by National Board of Fire Underwriters.
Look for trademark on each package.
Write for name of nearest dealer and let us solve your roofing problems.

H. M. REYNOLDS SHINGLE CO. "Originators of the Asphalt Shingle"
GRAND RAPIDS, MICHIGAN es Grow More Beautiful With Age





OTHER STATE FARM BUREAUS.

HE South Dakota Farm Bureau Federation states that every member in that state has already received benefits through the organization which will pay the membership fee for three years at \$10 a year. The American Farm Bureau Federation, it says, has saved the farmers of the country an average of \$30 each on freight charges for 1921. The South Dakota Farm Bureau has recommended that the state appropriate a reasonable sum of money each year to finance a cost survey on the production of farm products, to be made by the extension department of the South Dakota Agricultural College.

One of the outstanding events of the South Dakota Farm Bureau year was the connection of the growers of that state with the Michigan State Farm Bureau, with the result that considerable amounts of Dakota seed will be planted in Michigan this year.

Forty thousand Kansas farmers reported recently on a live stock questionnaire sent out by the Kansas State Farm Bureau. Questions asked in the census included the number of live stock on each farm and the number that would probably be seeking market each month during the winter. The bureau is now assembling the whole report.

Resolutions adopted at the second annual convention of the Iowa State Farm Bureau included one deeming the present charges made by live stock commission firms to be excessive and unjust and calling upon the American Farm Bureau Federation to direct efforts to reduce these charges. Henry C. Wallace was endorsed for a place on the Harding cabinet as secretary of agriculture.

Ohio wool growers are preparing for a 30,000,000-pound wool pool at Columbus. The proposed pool will function as a clearing house for wool from surrounding states. Certificates issued by the warehouse will be bankable secur

The Wisconsin Farm Bureau Feder ation held its first annual meeting at Madison, February 2. President J. R. Howard, of the American Farm Bureau Federation, delivered the opening address. The Wisconsin Dairymen's Association has gone on record as commending intelligent action looking toward the cooperative marketing of all dairy products on a quality basis. The organization of the Wisconsin Cheese Makers' Federation was endorsed.

The American Farm Bureau Federa tion now includes a million and a half members. If the membership were to march four abreast down the main street of your town at the rate of five thousand a day, it would take the members just ten months to pass a given point. Forty-five states of the Union have farm bureau organizations.

The Texas Farm Bureau Federation has started off with a membership of twenty thousand and is planning a drive to make it one hundred thousand before the close of 1921.

Comparable to the Michigan State Farm Bureau's wool pool is the task of the Texas "committee of twentyone," which plans to sell 1,000,000 bales of cotton for Texas farmers during its first year of operation.

The cooperative live stock shippers of Iowa and the Iowa Farm Bureau Federation have affected a definite affiliation. All cooperative shipping associations in the state have been in vited to join.

It is a great mistake to send unripe beef cattle to market. They will not ripen on the road, like California fruit. One of the chief advantages of feeding a small number of animals is that of getting a better class of feeders.

The well-finished steer at two years of age will bring more money than the same animal would at four years of age in the same condition.



There really is no argument about the efficiency of Champion Spark Plugs.

With millions of people all over the world obtaining satisfactory service from using "Champions," their purchase is a safe investment for you.

Over 30,000,000 Champion Plugs Sold This Past Year



Champion Spark Plug Company Toledo, Ohio

ORDER YOUR BINDER TWINE

to make sure of getting your supply from the Michigan State Prison this year, Warden Hulbert is anxious to supply all the farmers first-but every pound of twine they do not need can be sold outside of the state at a substan-

The Gleaners have saved farmers thousands of dollars every year by distributing millions of pounds of Prison Twine on a co-operative basis and this year we want them to know of the necessity of ordering NOW so that none will be disappointed in not being able to get the twine they

WRITE TODAY for an order blank—and our proposition to agents for collective orders.

Gleaner Clearing House Association

315 Commercial Bank Building, Grand Rapids, Michigan



Inlaid Diamond Roofing

Are you going to Re-roof or Build? If so, you should use our per-less Inlaid Diamond Roofing applied over boards or shingles, laid lengthwise or updown. Made on an extra heavy woolfelt founda-tion, high-proof asphalt saturation and double coating, unfading crushed rock surfacing, with an unstoned leakproof lap-this Roofing, for permanence, durability and modern design stands supreme. With-out a Rival. Fully guaranteed. Inlaid Diamond Roofing Red and Green 32 in. wide in rolls of 108 sq. feet, weight 90 lbs. \$5.00. Plain Red or Green in rolls of 108 sq. feet, weight 80 lbs. \$3.85 including nails and cement, all F.O.B. Detroit. Write for illustrated catalog.

United Roofing Co. (Established 38 years) 2174 Gratiot Ave.,

HARDY FRUIT TREES

Grape vines, small fruit plants, ornamental trees and shrubs, grown in the famous Lake Shore region of Northern Ohio. Over a quarter century of fair dealing.

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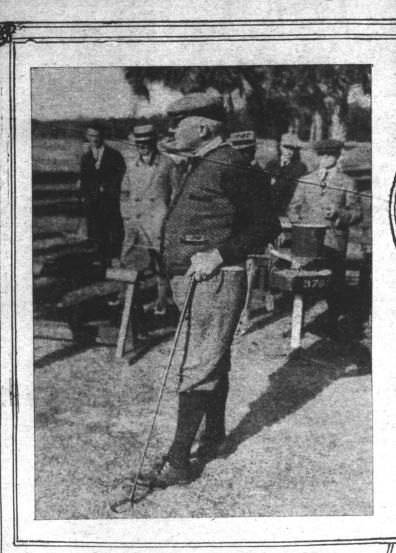
Write for catalog MAPLE BEND NURSERY,

PERRY, OHIO

Mention The Michigan Farmer When Writing to Advertisers

This 19-year-old girl is working out interesting "silk-paintings" after the fashion of the old guild tapestry weavers.

WORLD EVENTS IN PICTURES



An interesting photograph of President-elect Harding golfing in Florida. Anticipating a strenuous four years ahead the President-elect is endeavoring to put himself in physical trim for the drill.



William Jennings Bryan entertains President-elect Harding.



Geologist declares Eden was in Ohio.



These girls have found ice-boating a most interesting sport and have already become enthusiasts.



Erna Kemol, renowned exhibition skater, performing a stunt which many might try but few can accomplish.



Mrs. Sheridan's thrilling story of how she entered Russia and sculptured Lenine and Trotzky has interested the world.



THE VOICE OF THE PACK

By EDISON MARSHALL

Copyrighted by Little, Brown & Company



curbing his impatience. Again Gibbs' eyes were full of ominous specula- the trigger-"

never thought to do-lookin' all the self." he found somethin' else a whole lot thousand chances to steal back the ac- bed. Then he tied them into a neat of light and shadow in her eyes. stood and read 'em on the trail. And close watch over the roads for that. you know-just as well as I do-what

But I went back the next morning, as soon as I could see. And the mountain lion had already been there. I went back lots of times since. And time I supposed I put it in my pocket, those papers away from him and slap-You know how it is—a fellow throws ped his face, and he wouldn't have put brush. his empty shell out by habit."

pleading. But the leader caught him- nox's. He's a lunger." self at once.

"I don't see why I need to explain to me." any of that to you. What I want to know is this: why you didn't shoot and as I thought. And I'll get 'em backget those papers away from him?"

gun as Cranston.

before, and it might again. You might word could pass except by a man on seasons as this and passed a love of and possibly a few of the hardier as well know first as last I'm not goin' snowshoes. Really there was no urg- them down through the years to him. smaller creatures. to do any killin's to cover up your ency about this matter of the evidence. When the ice made a crust over the

so, at most—and that's a heap different he would not be particularly watchful, Snowbird—and Dan never fully realiz-

"But you just lacked the guts to pull until spring in Lennox's desk.

more important—a roll of papers that cusing letters. Perhaps they would be packet and put them away where they She seemed to blossom under his stump when he was dyin'. It was your winter months they would be an old thrust his head out of the window and days went by without the discovery of fault, Cranston, for not gettin' them story, and a single raid on the house let the great snowflakes sift down up- some new trait or little vanity to asof anyone hearin' the shot and catch- lieve for an instant that the man Gibbs season that he loved. ing you red-handed. This detective had seen a detective. He had kept too He didn't stir from the house, that weak, often a sweet, untainted philos-

haired and clean-shaven."

"Yes?"

"Wears a tan hat?"

"That's the man."

up his arms. And now he'll hide 'em

"But no matter about that—its just by the great, snow-covered trees. mark my little words."

cowed. He was never so fast with a of this camp. But he knew that the he was correct in his belief that it was he began to wonder how the wild crechance of Dan starting upon any such very, very cold. "Blood on my hands, eh-same as on journey before the snow had melted

That comes of not going myself, house should be left unguarded, it shoes. At first there were pained ank- by the song of the pack on some dis-You fool-if he gets that evidence might pay Cranston to make an imme- les and endless floundering in the tant ridge. Sometime, when the world down to the courts, you're broken the diate search. Dan would have no rea- drifts. But between the fall of fresh is old, possibly a man will be born that "But I wouldn't get more'n a year or pected his possession of the letters; crust, he slowly mastered the art. on his words while the wolf pack sings.

first day of the storm. Snowbird and ophy of life, or perhaps just a lowering glad of the great pile of wood that lay startlingly graceful. outside the door. It meant life itself, "I know him-and I wish you'd punc in this season. Then Snowbird led him the realization that this was one of the that, shell ain't nothing-but all the tured him. Why, you could've taken to the windows, and they watched the hardest winters of his experience. white drifts pile up over the low under- More snow had fallen in the night and

Gibbs' eyes grew more intent. What somewhere-afraid to carry 'em for five days later, the whole face of the the ends of a few tall bushes that was this thing? Cranston's tone, in fear he meets me. That's Failing—the wilderness was changed. The buck would not hold the snow—was coverstead of commanding, was almost tenderfoot that's been staying at Len- brush was mostly covered, the fences ed, and the roofs of some of the lower "But he didn't look like no lunger clear, clean sweep of white, broken pression of drowning things, striving

yours?" he mumbled, looking down was not one in a thousand. To be and austerity that went with it. The were gone. Woof, long since, had "What do you think I want, a rope caught in the Divide in the winter wilderness claimed him as never be grunted and mumbled his way into a around my neck? These hills are big, means to be snowed in as completely fore. The rugged breed that were his winter lair. But the wolves remained, but the arm of the law has reached up as the Innuits of upper Greenland. No ancestors had struggled through such strange gray shadows on the snow,

Cranston had hard work from the gallows. I did aim at him-" and would probably pigeonhole them ed the full significance of her name until he saw her flying with incredible And the truth was that Cranston had grace over the snow-laughed at him "I did, and I ain't ashamed of it. But reasoned out the situation almost per- at first and ran him races that would "He stopped at the body, and it was besides the snows are here now, and fectly. When Dan wakened in the usually end in his falling headfirst into plain he'd been there before. He went he won't be able to even get word morning, and the snow lay already a a ten-foot snowbank. She taught him crawling through the thickets, lookin' down to the valleys in six months. If foot deep over the wilderness world, he how to ski and more than once she for clues. He done what you and me you want him killed so bad, do it your- knew that he would have no chance to would stop in the middle of an earnest act upon the Cranston case until the bit of pedagogy to find that he wasn't way between the trail and the body. This was a thought indeed. On the snows melted in the spring. So he listening at all. He would seem to be He'd already found the brass shell you other hand, another murder might not pushed all thought of it out of his mind fairly devouring her with his eyes, detold me to get. At least, it wasn't be necessary. Months would pass be- and turned his attention to more pleas- lighting in the play of soft pinks and there when I looked, after he'd gone, fore the road would be opened, and in ant subjects. It was true that he read reds in her cheeks, and drinking, as a You should've thought of it before. But the meantime Cranston could have a the documents over twice as he lay in man drinks wine, the amazing change

Hildreth had chucked into an old pine guarded closely at first, but by the late would be quickly available. Then he gaze. Not one of those short winter that night. You needn't've been afraid might turn the trick. He didn't be- on his face. It was winter at last, the tonish or delight him-sometimes an unlooked-for tenderness toward the "A tall chap, in outing clothes—dark- he found plenty of pleasant things to of her eyelids in which her eyes would do and talk about before the roaring show lustrous through the lashes, or fire that he built in the grate. He was some sweeping, exuberant gesture

Lennox wakened one morning with had banked halfway up his windows. When finally the snowstorm ceased, The last of the shrubbery-except for were out of sight; the forest seemed a outbuildings had somewhat the imonly by an occasional tall thicket and desperately to keep their heads above water. He began to be very glad of When the clouds blew away, and the the abundant stores of provisions that air grew clear, the temperature began overcrowded his pantry-savory hams For an instant their eyes battled. In the meantime the best thing to do to fall. Dan had no way of knowing and bacons, dried venison, sacks of po-But Gibbs had never the strength of was to move at once to his winter how low it went. Thermometers were tatoes and evaporated vegetables, and, his leader. If he had, it would have trapping grounds—a certain neglected not considered essential at the Lennox of course, canned goods past counting. been asserted long since. He sucked region on the lower levels of the North home. But when his eyelids congeal. With the high fire roaring in the grate, in his breath, and his gaze fell away. Fork. If at any time within the next ed with the frost, and his mittens froze the season held no ills for them. But It rested on Cranston's rifle, that in few weeks, Dan should attempt to car- to the logs of firewood that he carried sometimes, when the bitter cold came some manner had been pulled up ry word down to the settlements, he through the door, and the pine trees down at twilight, and the moon looked across his knees. And at once he was would be certain to pass within view exploded and cracked in the darkness, like a thing of ice itself over the snew. atures who wintered on the Divide But he loved the cold, and the silence were faring. Of course most of them

More than once in those long winter Yet if the chance did come, if the snow, he learned to walk on snow- nights their talk was chopped off short son for supposing that Cranston sus- snow and the thaws that softened the can continue to talk and keep his mind

(Continued on page 237).

AL ACRES-Al Found It Difficult to Keep His Feet Warm and His Head Cool

-By Frank R. Leet



This Style Book is Yours-Free!



Out of the "NATIONAL" Style Book steps the woman made beautiful by Fashion. From Fifth Avenue Hat, to "NATIONAL" Dress, and Coat or Suit, even to the Shoes, there is the beauty and charm called Style.

And, best of all, that Woman of Style may just as well

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For men who believe that appearance is desirable and service essential, there are suits and overcoats and shirts and shoes—everything of quality for men.

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A \$50.00 Saving on Your Family's Needs

This very Spring there is a big saving on your family's needs. There is a double saving—for goods of "NATIONAL" Quality are always an economy, and there is a \$50.00 saving in price besides.

Here Are the Prices for Spring

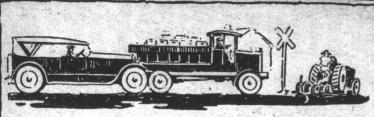
All-Silk Taffeta Dresses from Last Spring's Prices were from	4		•
All-Silk Georgette Waists from Last Spring's Prices were from	\$2.96 \$6.95	to	\$9.98 \$21.50
Waists of the Stylish Cotton Fabrics	98¢ \$1.39	to	\$2.98 \$8.98
Men's All-Wool Worsted or Cassimere Suits. from Last Spring's Prices were from	\$19.98	to	\$34.98
Boys' All-Wool Suits, Sizes 11 to 18 years from Last Spring's Prices were from	\$7.98	to	\$13.98

But your Style Book tells the whole story of lower prices—gives you in detail the saving that may as well be yours.

To write today for your free copy of the "NATIONAL" Money-Saving Style Book, is to give yourself and every member of your family all the pleasure there is in New York Style, in authoritative "NATIONAL" Style, all the delight and satisfaction to be had in apparel of "NATIONAL" Quality, and you secure besides a saving in cash of at least \$50.00.

And this page is printed merely to give you this message—that one "NATIONAL" Style Book is held here for you, ready to be sent you free—just for the asking.

National Cloak and Suit Company, 222 West 24th Street, New York City



for less gas engine trouble in your busy season -install the best piston rings now!

Leaky piston rings are responsible for most oil and carbon troubles, loss of engine power, and waste of gasoline and lubricating oil. By using rings which are properly designed and manufactured, you can largely prevent the expense and annoyance of these common engine faults.

McQuay-Norris Equipment represents ten years of successful experience in piston ring engineering. A supercut Ring in the top groove of each piston keeps oil out of the combustion chamber. This saves waste and decreases oil and carbon troubles.

The genuine LEANTROOF Rings in all lower grooves prevent the waste of fuel. Their equal radial pressure keeps gas from wasting past them—turns it all into power.

Your dealer can sell you both rings in every size or over-

Always install the combination McQuay-Norris Mfg. Co. St. Louis, U. S. A.



Write for Free Book

It explains why McQuay-Norris Piston Ring Equipment will in-crease gas engine power, save fuel and oil, and decrease carbon troubles. Address Dept. AE



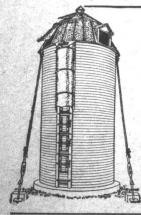
Get a Planet Jr. for long service

Of all the fine qualities for which Planet Jr. Cultivators are famous—thoroughness, adjustability, ease of handling, strength, and durability—the one that gains the most enthusiastic endorsement from our customers is long, dependable service. Planet Jr. Horse Hoes and Cultivators are built of the best materials, well braced to resist every strain. The steels are beveled and specially hardened.

No. 8 Planet Jr. Horse Hoe is used all over the world. Works any

useful width, throws the earth towards or away from the row.





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A recognized fact which is especially true at the present time. Bourbon Triple Wall and Stave Silos are economical. They are good silos. Write us for silo information.

Bourbon Silo Company, Fort Wayne, Ind.

Mention The Michigan Farmer When Writing to Advertisers and. Every day at Washington a man on the sends out the correct time, so that itched.



Blind Men

Our Weekly Sermon-By N. A. McCune

they could not.

not tell a gnat from a camel. The is easy to become blind. Pharisee has moral astigmatism. Going still further, Jesus uses a modern illus- young man will grow up in a rural comtration. He says the Pharisee's soul munity, goes to college, and makes for is like a metal dish, highly polished on the city. He does not ask himself the outside, but on the inside it is sep- whether the community that gave him tic, foul, putrid. And the tragic side birth may not need him, and whether, of it is, the Pharisee is utterly uncon- in fact, he may not do as well there, scious of all this. He regards himself as in the city. A young man of the as quite the model of what a man writer's acquaintance went back to the ought to be, in morals and religion.

a perverted state? How can he devel- ber of the community where he lives. op such a combination of contradictions? How can he become such a blue ribbon hypocrite? It is not hard. It forget self and despatch duty without it in Germany. Germany did not think books or our prospects. she was particularly bad, when she said that God had called upon her to world. She excused her practices by saying, "War is War." Intelligent peohour for the saloons, and will enlarge on the benefits of liquor. While the populace of Petrograd is dying this winter, and people are falling over dead in the streets from cold and hunger, Trotzy and Lenine state that they are the heralds of a new age, which will surpasse all previous ages, as the modern dwelling surpasses the cave. Preachers in the south used to preach sermons two hours long on slavery, in which they proved to their perfect satisfaction that the Bible upheld slavery, and it was a divine institution.

Tennyson represents in the "Lotus-Eaters" a company of men and women on an island who were anxious to get back to the mainland, where their families lived. Before embarking, they energy. From that time, the lotus-eatare content with a half life.

conscience? Is not that a guide? How anything. many times I have had men say, "Well, accompany their husband into the oth- good care of them. er world, is also sincere. No, con- Stephen McCann says that it is the science alone is not sufficient. Con- little things of life that count big and

N the seventh chapter of St. Mark's clocks everywhere in the Union, and gospel, Christ makes a serious aboard ships hundreds of miles at sea, charge against a certain class of may be corrected to the second. The men. He says there they have forsaken best and most elaborate timepieces rethe commandment of God and have quire correction. In a certain public substituted the commandment of men. building in London, there is a yard-He says that these men have tampered stick of metal, embedded in the floor. with conscience so long that they can- It is exactly a yard long, to the onenot think right, cannot see right, and thousandth part of an inch. It is the hence cannot act right. Their inner standard yard of the British Empire. monitor has become so twisted that And the soul requires a standard. they do not recognize right when they When we measure ourselves by oursee it. First, they would not see. Then, selves, it is easy to get far away from the yardstick, and ere we know it, we A gnat is a tiny insect, about the will be counting thirty-four inches as size of a mosquito. It does not look thirty-six. When we set our spiritual very much like a camel. But Christ clocks by other people's clocks, instead says that the Pharisee's sense of right of God's clock, it is not surprising we and wrong is so warped that he can- get sadly mixed, in our soul-time. It

Young people are often blind. A ancestral farm. Today he has a large Now, how can a man get into such family, and is a much consulted mem-

After all, it is selfishness that blinds. We are liberated as we are enabled to comes on unconsciously. You can see asking how it will affect our pocket-

impose her kultur on Europe and the Sunshine Hollow Items By Rube Rubicon

ple can be found who will argue by the Lord would have given us wings if he had meant us to fly. Patrick McDoogle told her he guessed the Lord would have put rubber tires on his feet instead of corns if he had meant him to ride in an auto. Pat likes aviation ever since a friend who is a newspaper reporter got him a ride on a comp. They were up fifteen minutes and Pat's got a picture of himself wearing a leather hat, taken just before they started. He don't like Myra on account of her knocking aviation.

When Uncle Oziah Filkins stopped off at the junction on the way to the fair he went in the restaurant and ordered a piece of blackberry pie. The waiter said "shoo' and the pie was custard. Oziah says he don't like the resate of the lotus-tree, which has the taurant business. He sold some broilfabled power to put its victims into a ers to one of them, three-pounders at dreamy half-sleep, and takes away all thirty-two cents a pound. Then he went down there for lunch and got ers make no efforts to leave the tropic soaked seventy-five cents for a hip and isle, where they are marooned. They a piece of neck. Oziah says he wonders how much the whole carcass brought, but supposes somebody's got NOW if all this is true, about the to pay for the pretty store front, homesoul getting into a state where it ly cashier, wobbly stools and fly paper is asleep or blind, until it gets insects in the window. He says its fierce to mixed with camels, what about the have to be an ultimate consumer of

Michael Palmer sold his Durham I do what my conscience tells me and cow, named Betsey, to the stock buyer. that is religion enough for me." To When Betsey was taken off down the obey conscience is a great thing, and road, peeking through the bars of the happy the man who really does so. But stock wagon, Mike came in the house what are you going to do when con- and cried for the first time in ten years. science is warped? What if your guide He and Betsey had been good friends is blind? The German leaders we spoke for twelve years, ever since she was a of were perfectly sincere. Many sal- young heifer. Some folks have thought oonists were sincere. The African chief Mike a tough old codger to deal with, who kills all the wives of a leading but he bas a good heart and thinks man when he dies, so that they may heaps of all his live stock and takes

Stephen McCann says that it is the science requires education, or it is an really should get a lot of attention. unsafe guide. It needs the correcting Stephen saved his vacation money for power of daily prayer, to keep it at two years in order to go to Niagara tuned to God, who is the only stand- Falls. But he didn't have a good time ard. Every day at Washington a man on the trip because his underwear

The Voice of the Pack

tity today. The cry sets in vibration in particularly large packs; and a qualcurious memory chords, and for a mo- ity in the song that they had heard ment the listener sees in his mind's it night seemed to bear it out. The eye his ancient home in an ancient thorus had been exceptionally loud and world-Darkness and Fear and Eyes strong, and he had been unable to pick shining about the cave. It carries him out individual voices. back, and he knows the wilderness as it really is; and to have such knowl- Previously their sport had been many edge dries up all inclination to talk, times interrupted either by the fall of as a sponge dries water. Of course, the fresh snow or a thaw that had softened picture isn't entirely plain. It is more the snow crust; but now every aftera thing guessed at, a photograph in noon was too perfect to remain inness that has constantly grown more the silences, and they did not dream themselves will then be tamed to play snow. dead and speak pieces-which means For as long as the wild lasts, the pack were here in the beginning, and in spite of constant war and constant hatred on the part of men, they will be here in the end. The reason is just that they are the symbol of the wilderness itself, and the idea of it continuing to exist without them is stranger than that of a nation without a flag.

It wasn't quite the same song that song of strength that couldn't avail died to regain their gayety.

his life. One of these days we'll find fleeing figure. 'em in a big circle around the housethe rifles."

But this picture appalled neither of of them sped after him. his two young listeners. No wolf pack can stand against three marksmen, armed with rifles and behind oaken walls.

Christmas came and passed, and January brought clear days and an ineffective sun shining on the snow. These were the best days of all. Every aftered except for the pistol that Snowbird carried in the deep pocket of her mackinaw. "But why not?" Dan replied to home. They'd stop to eat the five. I eyes fixed upon her. He had heard, long ago, and he had "What is it?" she demanded.

forgotten who told him, that in the But he is certainly an unknown quan- most severe winters the woives gather-

The snow was perfect for skiing. some dark part of an under-conscious- doors. They shouted and romped in dim as the centuries have passed. Pos- but that they had the wilderness all to sibly sometime it will fade out alto- themselves. The fact that one night gether; and then a man may continue Lennox's keen eyes had seen what to discuss the weather while the Song looked like the glow of a camp fire in from the ridge shudders in at the win- the distance didn't affect this belief of dows. But the world will be quite cold theirs at all. It was evidently just the by then, and no longer particularly in- phosphorus glowing in a rotten log teresting. And possibly even the wolves from which the winds had blown the

Once or twice they caught glimpses the wilderness itself will be tamed. of wild life: once a grouse that had buried in the snow flushed from their will run through it in the winter. They path and blew the snow-dust from its wings; and once or twice they saw snowshoe rabbits bounding away on flat feet over the drifts. But just one day they caught sight of a wolf. They were on snowshoes on a particularly brilliant afternoon late in January.

He was a lone male, evidently a straggler from the pack, and he leaped from the top of a tall thicket that had Dan had listened to in the first days remained above the snow. The man of fall. It had been triumphant then, and the girl had entirely different reand proud with the wilderness pride. actions. Dan's first impression was Of course it had been sad then, too, amazement at the animal's condition. but it was more sad now. And it was It seemed to be in the last stages of stranger, too, and crept farther into starvation; unbelievably gaunt, with the souls of its listeners. It was the rib bones showing plainly even through the furry hide. Ordinarily the heavily against the snow, possibly of cold and furred animals do not show signs of the despair and courage of starvation. famine; but even an inexperienced eye These three that heard it were inured could not make a mistake in this case. to the wilderness; but a moment was The eyes were red, and they carried always needed after its last note had Dan back to his first adventure in the Oregon forest-the day he had shot "They're getting lean and they're the mad coyote. Snowbird thought of getting savage," Lennox said one night, the beast only as an enemy. The stretched on his divan before the fire- wolves killed her father's stock; they place. He was still unable to walk; were brigands of the worst order; and but the fractures were knitting slowly she shared the hatred of them that is and the doctor had promised that the a common trait of all primitive peosummer would find him well. "If we ples. Her hand whipped back, seized had a dog, I wouldn't offer much for the pistol, and she fired twice at the

The second shot was a hit: both of and then we'll have to open up with them saw the wolf go to its side, then spring up and race on. Shouting, both

In a few moments he was out of sight among the distant trees, but they found the blood-trail and mushed over the ridge. They expected at any moment to find him lying dead; but the track led them on clear down the next canyon. And now they cared not at all whether they found him: it was simply on their skis or on snowshoes, unarm- a tramp in the out-of-doors; and both their veins.

But all a once Dan stopped in his Lennox's objection. "She could kill tracks. The girl sped on for six paces with five shots, or pretty before she missed the sound of his near it, and you know well enough that snowshoes; then she turned to find that would hold 'em off till we got him standing, wholly motionless, with

have hard enough time keeping up It startled her, and she didn't know with her as it is, without carrying a why. A companion abruptly freezing rifle." And Lennox was content. In in his path, his muscles inert, and his the first place, the wolf pack has to be eyes filling with speculations is always desperate indeed before it will even startling. When this occurs, it means threaten human beings; and knowing simply that a thought so compelling the coward that the wolf is in the other and engrossing that even the half-unthree seasons, he couldn't bring him- conscious physical functions, such as self to believe that this point was walking, cannot continue, has come reached. In the second, Dan had told into his mind. And it is part of the the truth when he said that five deaths, old creed of self-preservation to dislike or even fewer, would repel the attack greatly to be left out on any such of any wolf pack he had ever seen, thought as this. If danger is present, There was just one troubling thought. the sooner it is identified the better.



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He turned to her, curiously intent. morning. "How many shells have you in that pistol?"

him. "It holds five, and I shot twice. she had either shot at some wild crea-I haven't any others."

your pocket?'

and forget to take any more. There to be expected. was never any danger-except that night with a cougar. I did intend tobut what does it matter now?"

harmless-but he's likely enough to its nerve."

back?"

"Yes, I do, and not come out any more without a whole pocket of shells. I'm going to carry my rifle, too, just as Lennox has always advised He's only got a flesh-wound. You saw what you did with two cartridges-got in one flesh-wound. Three of 'em against a pack wouldn't be a great deal of aid. I don't mean to say you can't shoot, but a jumping, lively wolf is worse than a bird in the air. We've gone over three miles; and he'd lead us ten miles farther-even if he didn't go to the pack. Let's go back."

"If you say so. But I don't think there's the least bit of danger. We can always climb a tree."

"And have 'em make a beautiful circle under it. They've got more patience than we have—and we'd have to come down sometime. Your father can't come to our help, you know. It's the sign of the tenderfoot not to think there's any danger-and I'm not going to think that way any more."

They turned back and mushed in silence a long time.

"I suppose you'll think I'm a coward," Dan asked her humbly.

"Only prudent, Dan," she answered, smiling. Whether she meant it, he did derstand that you-living here only a stand all this better than I do." ness. "I guess it's your instincts."

"And I do understand," he told her earnestly. "I sensed danger back there you know-you can't help but know- Cranston pushed through. that the wolves are not to be trusted in famine times."

"I know it only too well," she said.

CHAPTER XIII.

D clump of exposed thicket on the —besides, against the doctor's orders." it is rather difficult to trace the mental to work. processes behind this impulse. Perhaps with one another, and anything in the en to you." way of violence may happen before the

The two passed out of his sight, and after a long time he heard the crack She took one breath and answered of Snowbird's pistol. He guessed that ture, or else was merely at target prac-"And I don't suppose it ever oc-tice-rather a common proceeding for curred to you to carry extra ones in the two when they were on the hills together. Thus it is to be seen that "Father is always telling me to- Cranston knew their habits fairly well. and several times I have. But I'd And since he had kept a close watch shoot them away at target practice upon them for several days, this was

He had no intention of being interrupted in this work he was about to do. He had planned it all very well. "We're a couple of wise ones, going At first the intermittent snow-storms after that wolf with only three shots and the thaws between had delayed to our name. Of course by himself he's him. He needed a perfect snow crust for the long tramp over the ridge; and lead us straight toward the pack. And at last the bright days and the icy Snowbird—I didn't like his looks. He's dawns had made it. The elder Lennox too gaunt, and he's too hungry-and I was still helpless. He had noticed that haven't a bit of doubt he waited in that when Dan and Snowbird went out, brush for us to come, intending to at they were usually gone from two to tack us-and lost his nerve the last four hours; and that gave him plenty thing. That shows he's desperate. I of time for his undertaking. The modon't like him, and I wouldn't like his ment had come at last to make a thorpack. And a whole pack might not lose ough search of Lennox's house for those incriminating documents that "Then you think we'd better turn Dan had found near the body of Landy Hildreth.

> The only really dangerous part of his undertaking was his approach. If by any chance Lennox were looking out of the window, he might be found waiting with a rifle across his arms. It would be quite like the old mountaineer to have his gun beside him, and to shoot it quick and exceptionally straight, without asking questions, at any stealing figure in the snew. Yet Cranston felt fairly sure that Lennox was still too helpless to raise a gun to a shooting position.

He had observed that the mountaineer spent his time either on the fireplace divan or on his own bed. Neither of these places was available to the rear windows of the house. So, very wisely, he made his attack from the

He came stealing across the snowa musher of the first degree. Very silently and swiftly he slipped off his snowshoes at the door. The door itself was unlocked, just as he had supposed. In an instant more he was tiptoeing. a dark, silent figure, through the corridors of the house. He held his rifle ready in his hands.

He peered into Lennox's bedroom not know. "I'm just beginning to un- first. The room was unoccupied. Then the floor of the corridor creaked befew months-really know and under neath his step; and he knew nothing She further was to be gained by waiting. stretched her arms wide to the wilder. If Lennox suspected his presence, he might be waiting with aimed rifle as he opened the door of the living-room.

He glided faster. He halted once just as sure as I can see your face, more—a moment at the living-room That pack—and it's a big one—is door to see if Lennox had been disturbclose; and it's terribly hungry. And ed. He was lying still, however, so

Lennox glanced up from his magazine to find that unmistakable thing, the barrel of a rifle, pointed at his Then she paused and asked him breast. Cranston was one of those about a strange grayness, like snow rare marksmen who shoots with both blown by the wind, on the sky over the eyes open-and that meant that he kept his full visual powers to the last instant before the hammer fell.

"I can't raise my arms," Lennox said DERT CRANSTON waited in a simply. "One of 'em won't work at all

hillside until he saw two black Cranston stole over toward him, dots, that he knew were Dan and Snow- looking closely for weapons. He pulled bird, leave the Lennox home. He lay aside the woolen blanket that Lennox very still as they circled up the ridge, had drawn up over his body, and he noticing that except for the pistol that pushed his hand into the cushions of he knew Snowbird always carried, they the couch. A few deft pats, holding were unarmed. There was no particu- his rifle through the fork of his arm, lar reason why he should be interested finger coiled into the trigger guard, asin that point. It was just the mountain sured him that Lennox was not "heelway always to look for weapons, and ed" at all. Then he laughed and went

"I thought I told you once," Lennox it can be laid to the fact that many began with perfect coldness, "that the mountain families are often at feud doors of my house were no longer op-

(Continued next week).

MICHIGAN'S ROUND-UP LEADS.

NYONE who attended the farmers' round-up meetings at M. A. C. two weeks' ago must have been impressed by the new spirit of unity and strength manifested by the agricultural interests of Michigan, a spirit which characterized every gathering and seemed to pervade the place.

Farmers' Week as now held in this state is typical of the development of agriculture along cooperative lines, in the opinion of college leaders and notable agricultural men who were speak-

ers during the week.

Never before in so many cases did John leave the chores to be done by his neighbor and trek with Mary to East Lansing. There were between five thousand and eight thousand persons in attendance, according to final estimates. Registration figures were close to five thousand, and thousands of others failed to register.

Unusually keen interest was manifested in the general speakers, such as Charles Brand, marketing specialist; Dean Eugene Davenport, of the University of Illinois; A. F. Lever, expert in agricultural finance, and others. The exhibits, more plentiful and attractive than ever before, combined with the entertainment features to chase away monotony in the short interims between meetings.

Farmers' Week in its present status is not very old. It is only since the Smith-Lever act in 1914 that the big gathering has been possible. Before that date local farmers' institutes were held in the various counties and once a year an institute round-up was held, either at M. A. C. or at some other point in the state.

The fact that it is now the farmer's own week is pointed out by Robert J. Baldwin, extension director, at M. A. C., as the chief development since 1914. "In the old days the round-up was simply an educational conference," said Mr. Baldwin, "at which members of the college faculty set forth their ideas. Now some fifteen agricultural associations hold their annual meetings in connection with farmers' week. These control their own programs and the college merely coordinates the whole, procures speakers of prominence from outside, and plans the exhibits and entertainment."

Farmers' Week as now held has an important effect in causing the whole college, engineering and home economics divisions, as well as agricultural, to focus its attention upon the practical problems of the farmer, in the opinion of Ashley M. Berridge, chairman of the Farmers' Week committee. This in turn reacts upon Michigan agriculture in many indirect ways through the experiment station and extension department.

One reason for the success of the round-up in covering the vital farm issues of the day is the fact that the committee decides upon the keynote long in advance and proceeds to build all plans around it. This year the keynote was cooperative marketing. For next year it is, of course, still uncertain, but it is expected to be farm credit and finance. Already plans are under way for next year's gathering.

Mr. Berridge was at Cornell this week attending the New York state round-up for purposes of comparison and to gain any new ideas that may be useful. Several of the speakers from other states who addressed Michigan farmers expressed themselves as favorably impressed and declared that Michigan's round-up is now second to none in the country, not even excepting those of New York, Ohio and Wisconsin, formerly held to be the best. HENSHAW.

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STRAWBERRY PLANTS



women leaders at the college to be

sor to Mrs. Cora Ketcham, on the

board of the farm bureau. The elec-

tion of Mrs. Edith Wagar to that posi-

tion settled the question to the com-

plete and lasting satisfaction of every

it be said that Mrs. Wagar is a "sure-

nuff" farm woman, living today on the

farm to which she went with her hus-

band when they were first married.

She knows the needs of the farm woman-and incidentally, the farm man-

and her middle name is Common Sense.

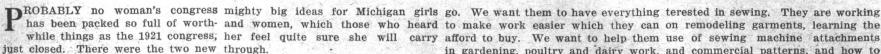
Mrs. Wagar's talk on "Why I Want a

To those who do not know her, let

woman who knows Mrs. Wagar.

Woman's Interests

The 1921 Women's Congress



day—the burning question of a succes- Agricultural College we are going to ed with one or two hooks."

in gardening, poultry and dairy work, and commercial patterns, and how to "I thought it was a wonderful thing for to make any headway in nutritional make dress forms. As a part of the heard, Dean Mary Sweeney, the new to vote," she said, "and when I first work we must have the foods to feed. work in food, Miss Pratt is conducting head of home enonomics, and Mrs. went out to earn a living I thought We want a standardized dress for high diet squads at the Soo where the chil-Louise Campbell, leader in Home Dem- that was wonderful, too. But the most school girls. You know we used to dren are learning to drink milk and onstration work in the extension de-wonderful thing which has happened wear underwear and shirtwaists. Now like it. partment, both big women in their was when home-making became a pro- we wear 'blouses' and lingerie, without Miss Stimson, in Dickinson county, chosen field. There were daily confer- fession. The home is the most vital much of either. We want a Peter also has a large foreign element. She ences in all lines of farm and home factor in civilization, for men are mold- Thompson suit for girls, or a middy, a has visited every community and pracwork, movies, plays, and teas, and last ed not by schools and religion, but by neat comfortable dress that can be got-tically every school and found in many -that is, it came to a head on the last homes and women. Here at Michigan ten into with little trouble and fasten- that the children were drinking no

milk at all. She has started milk crusades in the rural districts, and this winter while snow in the upper peninsula makes it almost impossible to get into the country, she is conducting sewing clubs in the cities.

Miss Richardson, of Gogebic county, found that in spite of the extreme winters, very few schools were serving hot lunches. She is starting this work, has a squad of fifty children drinking a quart of milk a day, and as a side line is helping various groups of women make their new spring hats.

Miss Clark, of Kalamazoo county, is carrying on all phases of the work, Nutrition work has been requested by so many that she has started a series of classes with a course of fifteen lessons. Investigation has revealed that the average amount of milk consumed in her county amounts to only one and twofifths cups per day.

Miss Pennell, of Manistee county, is

Miss Carrett, of Oakland county, is that kills three hundred thousand bab- to be present. The work in that county ing on nutrition, especially with school is largely among foreign women, who children, and has helped make a num-Mrs. Campbell, home demonstration must be visited personally. Miss Mc- ber of fireless cookers and dress forms.

Miss Rogers, of Wayne county, finds larger social life. The women in her Miss Woodworth, of Allegan county, nutrition class invited their husbands

The need of a new home economics building was urged by Mrs. Dora Stockan to have an egg-beater that won't Miss Pratt, of Chippewa county, man, woman member of the board of

> "Michigan Agricultural College had the first home economics course in the United States," she said, "but we must go forward into larger fields. And to progress we must have room for laboratories for research work. We want to learn what to feed the babies, and know our formulas are right. We want to know why so many mothers cannot feed their own babies. We want a place out here where we can bring babies and let our girls actually take care of them. When the home is put back in its rightful place, when homemaking is again considered the most important occupation for women, then many of our moral and industrial problems will cease."

> Miss Alma Binzell, of the University of Minnesota, was the feature of the Friday morning session, and her talk on "Making Children More Worth while," was full of suggestions to the thinking parent.

"You must determine in the beginning that there are certain principles to be obeyed, and follow out those

Activities Among Michigan Farm Women

MRS. EDITH WAGAR, of Monroe county, was elected member of the Farm Bureau's state board of directors, to succeed Mrs. Cora Ketcham.

One home demonstration agent, Miss Clark, of Kalamazoo county, culled seven thousand hens from flocks and saved the owners \$5,000 a year.

Ten counties sent a woman to represent their county at Farm-

Michigan is the fourth state in the Union in home demonstration work.

Rural nutritional clinics are being established by the home

extension department of the college. Five hundred and fifty-eight of the six hunrded and thirty-six

young women graduates of the Michigan Agricultural College

Home Demonstration Agent in my County," was one of the features of "My husband and I started as parthave married. ners on a small farm, with poor buildings and equipment, and there we determined to build our home for life. We agreed that we would not stay on the farm just long enough to grub what mothers. It is twelve times as danger- agents for two-minute reports of their just commencing her work. She plans

we could out of the soil and then 'retire to a nearby village, but we would it is to be a soldier. We are going to leader, reported for Miss McIlhenny, live as we went along; we would build a home for the ages, and spend our life always with the things for which we had worked and which had become a part of our life. Only the farmers who do this know the joy of living. That is one of the reasons I want a home agent. We must have a leader who can change the thought of the woman who thinks her lot is the hardest on earth. She must be taught how to lighten labor, how to make farm home life more worth while. We must improve conditions on the farm so that women will be content to stay in the country. We need a few extra women there to call upon for additional help. How many women in Michigan dare not have a baby because they know of no one who would come in and do the extra work while they are helpless?

The opening day was given over to clothing. Miss Ada Blanchard, of Boston, director of Clothing Facts Bureau. gave an interesting talk on the findings of her bureau; Miss Winifred S. Gettemy, head of the household art department, spoke on "Standardizing of Textiles." Miss Cecil Van Steenburg, assistant professor of household arts, gave a talk on "Shoes," which will be published in these columns in the near

We need someone to teach us food

values, to teach us the necessity of

consuming more milk. Monroe is a

dairy county, and it is distressing to

consider how much oleo is used in our

farm homes, to think of the pitiful lack

of milk on the family table."

Dean Mary Sweeney, who was introduced to the congress by Mrs. Ketcham, is very small, but she has some

ous to be a baby under one year old as work. Miss Aurelia Potts, assistant to concentrate on starting babies right. change that, for it is largely ignorance of Houghton county, who was unable also new in her county. She is workies a year."

leader, explained how money to finance Ilhenny gained their confidence two extension work is secured and urged years ago during the flu epidemic when her big field in nutrition, especially in the women to go home and work for she took charge of the situation and milk campaigns. She is working, too, an agent in their county. There are turned the town hall into a hospital for more home conveniences, and for a now twelve agents in Michigan, and it and herself into a hospital corps. is hoped to increase that number to twenty-five this year.

knife' campaign. We want every wom- ing of dress forms, and poultry. stutter, you know the kind you turn found the order reversed in her coun-agriculture. twice ahead and once back to make it ty, where the women seemed most in-

train the girls to be home-makers and Mrs. Campbell called on the home

devised a caucus and convention system one meeting, and have been politely "There are so many things the extem to find the things the women want-requested by the men to let them come tension department are working on," ed most to take up. The decision was right along. she said. "We want to start a 'paring nutrition, clothing, including the mak-



The Home Demonstration Agent Responds to All Calls for Help from the Farm Women in Her County. These Women Asked for Instruction in Making a Fireless Cooker.

ciple.'

Miss Binzell stressed the fact that are buying what they pay for. the first five years are the formative years; that training should begin the in the agricultural building. The food moment of birth, and that a child could exhibit stressed the fact that most be permanently ruined by the fourth families serve twice as much meat and year through mismanagement. She eggs as necessary, and only about half gave figures to show that those church- as much fruit and vegetables. A proper es which train children early have as diet was suggested. low a proportion as one in 4,250 in churches where religious education is package library for farmers and outdeferred until later the rate runs as in the state readers, and with the help

president of the State Federation of is to clip from magazines and newspa-Women's Clubs, had some pertinent pers articles on subjects of wide interthoughts for the other half of the est, and arrange the clippings in con-

be fathers," she said. "I want them but a few of interest to farm folks are taught food values. If they knew this Cooperative Marketing, Tractors, Farm most important thing mother wouldn't Leases, Land Clearing, Cost of Sugar be told to give up to Johnny when he Beet Production, Milk Production, doesn't want to eat his lettuce or drink Poultry Production, Potato Production, his milk. In our manual training class- etc, For the farmer's scrap book Mrs. es I want our boys taught things that Landon's exhibit suggested the use of really count. I want them to learn manilla envelopes with the topic writhow to hang screens and look after ten on the outside. Into these envelfaucets and balky furnaces."

ings and clothing on the second floor months later a clipping has been provof the women's building attracted en worthless, it may be easily removed crowds of both men and women all and burned.

leadings. Do not take the attitude with through the week. Properly fitting the child, 'You must do this because I shoes for every period, "From Infancy say so.' Explain to him, rather, the to a Cornless Old Age," showed what fundamental law back of your request, sort of footwear to select, and exhibits and invariably he will obey willingly, of poorly made and poorly fitted shoes The law of health demands that he eat conveyed a horrible warning. The adcertain foods. Explain this to him, vantages of seamless or seamed stockand he won't refuse them. No parent ings were illustrated, and the profit of has the right to allow his child to be- properly caring for one's hose showed come the victim of physical whims, up in the exhibit. Easily made chil-Love for parents is not a sufficient rea- dren's aprons and play suits and womson for securing obedience. Supose en's house dresses had hundreds of adthe parents should both die? The mirers. At a table students illustrated child must have an underlying prin- easy tests for textiles, and many women learned how to decide whether they

The food and library exhibits were

Mrs. Linda E. Landon has planned a high as one in seven hundred and fifty. of her efficient assistant, Miss Feld-Mrs. W. R. Alvord, of Detroit, state kamp, has the library ready. The idea venient packages for mailing. The sub-"I want to have the boys taught to jects chosen for clipping are various, opes the farmer puts his clippings, all Interesting exhibits of shoes, stock- related under the one head. If six

If There's Any Question

whether coffee causes sleepless nights follow-ed by drowsy days change to

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3350.—Comfortable ment. Cut in seven sizes; 36, 38, 40, 42, 44, 46 and 48 inches bust measure. 38-inch size will require 21/2 yards of 36-inch material. Price 12c.

No. 3094.—Dress for Work or Leis-re. Cut in seven sizes, 34, 36, 38, 40, ure. Cut in seven sizes, 34, 36, 38, 40, 42, 44 and 46 inches bust measure. Size 38 requires 61/2 yards of 36-inch material. Width of skirt at lower edge is about 21/4 yards. Price 12c.

No. 3504.—Frock for the young miss. Cut in three sizes, 12, 14 and 16 years. A 14-year size will require 4% yards of 36-inch material. Price 12c.

No. 3498.—An Attractive Gown. Cut in seven sizes, 34, 36, 38, 40, 42, 44 and 46 inches bust measure. A 38-inch size will require 3% yards of 40-inch material for the dress, and 2½ yards of 27-inch material for the guimpe. The width of the skirt at the foot is about width of the skirt at the foot is about two yards. Price 12c.



No. 3043.—Girls' School Dress. Cut in four sizes, 8, 10, 12 and 14 years. Size 10 requires 3% yards of 44-inch material. Price 12c.

No. 3352.—Junior's Dress. Cut in three sizes, 12, 14 and 16 years. A 14-year size will require three yards of 38-inch material. Price 12c.



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and interest.

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Our Boys' and Girls' Department

Saved by an Air Hole-By J. M. Merrill

and sleet during the past week.

"Because, you see, he has a lot of surface of the river. unsold furs on his hands, a full winwill get out of them. Indications are all right of course." that the fur market is in for a sharp decline. I wish John knew-"

of miles distant.

farmer, "but for the fact that old Doll freeze the surface water completely. has cast a shoe, and has gone lame. once."

back tonight. The sleighing must be skates. about used up from the spring rains, but there's the river, you know."

"The river, son?"

The eyes of the speaker fell from from a bow. contemplating the western sky to a contemplation of a long, smooth expanse of ice that sped away as far as

ly sharpened. I'd as soon go as not."

ing stool and reflected.

"I ought to have thought of this sooner," he communed. "It is impera- a big air-hole four miles down, at Fid- the wolves grew more distinct, and up any further suggestions. tive for me to get to Great Rapids to-dler's Elbow. You'll run into that and the moonlit glare of ice, dark forms morrow before night. I have to meet drown! Let's go back." Jake Campeau there with furs of my own. I guess we'll have to put it off Fred. "Go home if you want to. No-

much difference in the price of furs, I'll land and walk around it-that's muscular young legs. father?" asked Fred.

here to go with you tomorrow morning!" declared Fred, springing from his : own stool, swinging his pail nearly full of frothing warm milk about his head. I'll go and get ready at once.'

Twenty minutes later boy and man came out of the house, the boy carrying a folded strap in his right hand, a pair of skates swinging from his left. They walked down to the river whose surface was still covered with its winter coating of ice.

"I don't know if it is really safe, Fred," said the father hesitatingly. "If your mother was home she might-"

"Suggest that I stay strictly on land," laughed the boy. "Mother is so very easily worried. I'm glad she's away, for now I can go to Uncle John's without giving her a single pang of worry. I'll be back by midnight with Uncle John's pack of furs strapped to my back, never fear."

Mr. Davidson sat on a log near shore while his son strapped on his skates.

AM going to the city tomorrow and Never was there a boy of Fred's years to skate parallel with Fred. Zim-zim- wolves were actually pursuing him, February, and no thaws had come to three, and then-The farmer raised his eyes to the soften the white field over the river's What was that echoing down beskies, assuming a debating attitude, bosom save within the last few days, tween the banks of the narrowing of keeping his strength more fully than glory that was pleasing to the man, danger. The moon was already risen Too well the elder boy knew that snapped! Or if he should sprain an

"Why do you wish Uncle John to farewell shout as his parent straight- wolves had been bothersome to the know of your going to the city, ened up to send a farewell wave of his settlers. Many a night had Fred been boy skater with that black bunch of

ter's catch, and the sooner he gets farmer as he went back to the house. deer separated from its mates, fleeing jacket with a frosty clicking, at the them to market the more money he "He'll be home again by midnight. It's for its very life.

It would have been as the father be- is that noise, Fred?" lieved had not circumstances over "I'll go tell him if you want me to, which neither father or son had any Father," said the son, who evidently control. The ice was an even glare, was not averse to a trip down the riv- the worst hummocks having been plan- the small boys voice. er to his uncle's home some half score ed out level by the recent rains. The

There's not another horse I would dark object shot from the shore of the to me, Abner." trust you to ride so far at night. You river and set out in pursuit of Fred

> "Where you going, Fred?" called small Abner as he sped down the glit- his friend almost instantly. tering surface of the river as if shot

"To Uncle John's," yelled Fred.

"Good, I'll go along!"

Soon the smaller boy skated up. the eye could reach toward the distant alongside of the other. Abner was cur- sprained my ankle!" wailed Abner. jous and wanted to know why his "It's nearer to Uncle John's by the friend was going so far so late in the boy, "climb on my back!" river, father, and my skates are fresh-day. After Fred had explained, small Abner suddenly swerved to the side of other clasped both hands about his Mr. Davidson sat down on the milk- the former, grasping his arm, saying in neck he rose to his feet, feeling cona sharp voice:

"Take your hand off me," called ows in a mirror. "Do you think a single day will make that airhole. I knew it was there, but panse of ice with all the powers of his hard breathing of panting pursuers

Abner did not return. Instead he don't choke me that way." "Then Uncle John's furs shall be wheeled slightly aside and continued

I think your Uncle John ought to a better skater. The farmer had no zim-zlitt! the keen steel runners of the since they came directly down the rivknow it," said Mr. Davidson to his fears for his son if the ice were only boys' skates cut and sang across the er in his direction, uttering horrid son Fred as the two were at the barn safe. It was now the latter part of hard ice. A mile, two miles, almost yelps at every jump. It soon resolved

Fred skated away, sending back a It had been a hard winter, and the them would be lost! hand to the boy gliding over the steely kept awake along about midwinter by humanity, Abner Bolt, clinging like "Good boy, good son," mused the they gathered for their prey, usually a dangling, whipping against his friend's

"Crackee!" exclaimed Abner. "What

"Can't you guess?"

"Taint wolves, Fred!"

"You might go, Fred," mused the weather having sufficiently cooled to now, Abner. You'll have to keep on it was the airhole! with me. They're not chasing us. We

The small lad needed no second bidknow we have tested her more than Davidson. The farmer's son recognizeding. The two boys, urged by the wolf ed his pursuer as one Abner Blot, a howls into greater speed, were appar-"Truly." exclaimed Fred. "Old Doll's shingle weaver's son, who, though sev- ently outdistancing their enemies, clear in the moonlight. And our boys true blue every time; but there's an- eral years Fred's junior, yet still be- when Fred's companion, in jumping ovother way to get to Uncle John's and lieved himself superior on a pair of er a small tree imbedded in the ice, fell prostrate with a cry of pain.

Fred circled about, coming back to

He snatched Abner by the arm and drew him to his feet. A sharp cry from the lips of the small boy shocked the other.

"I-I can't go a step, Fred. I've

"Quick then!" uttered the larger

Fred squatted down, and when the siderably burdened as you may igam-

Fred Davidson knew now that the

itself into a skate for life.

The sun was setting in a sort of red It did not seem possible there was real stream. The howl of dogs? Ah, no! at this moment. What if a skate strap since there had been almost daily rains giving promise of a cool, bright night. sound, the howl of gray timber wolves! ankle as Abner had done, the two of

> On with increased speed swept the the mournful howl of these beasts as grim death to his perch, his lame foot same time paining him exquisitely.

"If I only had a gun," breathed little Abner.

Fred said nothing. He felt that he needed all his strength to guide his There was a perceptible quaver in skated feet on their flight for life. Presently a long dark streak met the boy's "I expect it's that same," assured strained vision in the distance. As he surface of the river was like glass, the the older boy. "You can't go home drew nearer Fred realized the truth-

"Oh, Fred!" screamed Abner, in a Half a mile down the stream and a can outrun 'em anyhow. Keep close muffled voice, "there's the airhole now!" Yes, there it was, wide and rippling near the center of the river, narrowing toward the shore, then widening again till the free water ran were gliding directly to their doom. The thoughts of Fred worked rapidly. It seemed to him at first that the only hope of safety lay in a dash for the shore, where among the willows which bent low along the margin, he might be able to hide from the wolves.

> Turning his head as far as possible Fred saw that the gray timber wolves were gaining upon him at every jump. He could not make the shore if he so desired. His only hope lay in keeping straight on, and that was not really a hope, as he was sure to plunge into the open river and go under the ice!

Abner hugged all the tighter, breath-"You can't make it, Fred. There's ine. At the same time the howls of ing hard, not seeming able to make

Nor did Fred need any just then. His were seen running like immense shad- lips drew tightly across his strong white teeth. His every effort was at The smaller boy breathed hard as a terrible strain as he faced toward the body asked you to go. I can manage Fred struck out across the white ex- narrowest point of open water, the reaching his ears from the rear. The "Hang on tight!" breathed he, "but wolves were so close Fred feared they would be upon him before the airhole was reached. Better death in the river than at the jaws of timber wolves!

At the near edge of the narrowest point of open water Fred made a desperate leap high in the air. It took all his strength to make the spring, burdened as he was with little Abner. The great speed at which he was going, carried him much farther than he had dared to expect. His skates touched the far edge of ice just beyond that awful opening, cut and cracked the feathery fringe of ice where the water plunged beneath it, and glided on to a broad expanse of solid ice. Even as this took place Abner gave a tilt at Fred's throat completely shutting off

Another instant and the two boys fell prostrate, sliding a few yards across the glittering surface of frozen

A groan from Fred. Abner rolled free some feet away. The larger boy crawled quickly to his knees, his ears saluted with a terrific howl, the splash



Mr. Gladden and the Keweenaw Bay Pig Club Boys. Mr. Gladden (Baraga County Banker), Financed \$300 to these Boys and also Gave them \$15 in Pig Club Prizes.

of water, crackling of ice, then the silence of death.

leap for life. Every wolf drowned but tato crop will be this year as I have one, that one crawling out upon the not harvested it yet. ice, only to speed from the spot, gen- The first year I bought a heifer, the unexpected catastrophe.

pletely deprived him of strength for at the Menominee Agricultural School. the time being.

crawl toward his friend.

"Drowned, I guess," returned the larger boy.

rived at the home of Uncle John, completely fagged with the night's advent than he did. good uncle's wife.

John Davidson listened to the story told by the boys, and gave them both it. high praise for the way they had out now." generaled the ravenous timber wolves.

STATE CLUB WINNERS ARE ANNOUNCED.

girls throughout the state is the specialist. pions in the various club projects. staking blacklegs. My princess takes Since the state club leaders are not great interest in my potato plot also. able to do this until Farmers' Week She feels that it is necessary to pay a each year the news of the awards fashionable call occasionally. reaches the club folks a little late. Everyone who attended the big event at M. A. C. this year were shown the importance of this junior project work.

Just last week Mr. Turner, State champions in the three leading crop your flock, or they will soon teach the clubs, namely, potato, corn and bean habit to others. clubs. An award of a large loving cup will be presented to each state cham- ter than anything else that is overpion. Starting in 1916 the Michigan crowded. It pays to have quarters that Bankers' Association presented the are perfectly commodious and comfort-State Corn Club Champion with the able. large cup. This was won last year by Th Floyd Bergey, of Caledonia, Kent coun- ant adjuncts of the poultry business ty. In order to keep the cup perma on the farm, if carefully mixed with nently some club member must win it dry earth and kept as fertilizer. No three consecutive years. Otherwise it manure is richer than hen droppings. is retained only for one year.

for the state champion in the bean and Remember that "like begets like." potato projects. The Michigan Bean Jobbers' Association presented the one by purchasing some good fowls or eggs trophy while the Michigan Potato from a heavy-laying strain of pure Growers' Association gave the other. breds. It will be money well spent. This year the cup offered for the best crop of beans went to Lester Weaver, pay is the one who neglects them or of Chesaning, Saginaw county, and the does not keep an account, and hence one for corn to Forrist Beddell, of does not know how much revenue the Flint, Genesee county.

the potato club project. The northern the chicks and the old fowls scrupupart of the state carried away high lously clean. Wash them out every honors again and the silver cup was evening and scald them out at least presented to Theodore Stenson, of Cov. once a week. Replenish the water supington, Baraga county. Theodore was ply several times a day. Don't pour state potato club champion last year fresh water into the vessels, but throw also, and now has but one more year out all the stale water and then put in to win before he can keep the cup per. the fresh water. manently. In his story below he says: "I hate to lose it, I'm used to it now." wants to sit is to begin the first time We predict he will make a comeback she is found to be sitting. Put her in if possible.

acre of Green Mountain potatoes and a day or two in such a cage cools off had a total of one hundred bushels, or at the rate of four hundred bushels per acre. His exhibit at the college last week showed remarkable skill in selecting tubers for an exhibit. A story of his work was included in his exhibit as the placings of all club members is determined on the four-point basis.

BABY CHICKS 25 for \$5,50 50 for \$10 and 100 for \$18.00.

Prepaid, safe delivery guaranteed. Single Comb White Leghorns; White, Buff and Barred Plymouth Rocks; S. C. R. I. Reds and Anconas.

Fenton Chicken Hatchery, Box 244, Fenton, Mich.

MY 1920 POTATO CROP.

It proved death indeed to the half THIS is my third year in club work, dozen timber wolves that pursued our T I have planted a quarter-acre of two boys. The momentum of their potatoes every year. My first crop was swift race sent them sliding into the one hundred and ten bushels. My opening which Fred Davidson had so second crop was one hundred and five miraculously spanned in his desperate bushels. I do not know what my po-

uinely frightened out of his wits by pure-bred Holstein. I bought her at the Newberry State Farm. Her name Fred crouched on the ice, clasping is Princess Longfield Segis. I did not his hands together till they ached. At have enough money so I borrowed length he laughed softly, then began some from my dad. The second year to cry. The reaction from the tremen- I finished paying for her. The rest of dous strain he had undergone com- the money helped pay for my expenses

"Where are they, Fred?" finally county fair last year. Later I entered gurgled little Abner as he began to Houghton at the three-county fair at I received a prize there which my dad had taken for several years before. believe the reason for this is that I

Last winter I sent an exhibit down of some refreshment set out by the ceived a silver loving cup which I must win two more years before I may keep "I hate to lose it, I'm used to it

Our potatoes are under the pure seed inspection by potato specialists. These plots have frequent visits by Mr. Benjamin, county agent, Mr. Weston, head of county agents of the up-OF great interest to all boys and per peninsula, and Mr. Kotila, potato

Mr. Weston and I worked all day

THEODORE STENSON.

TIMELY POULTRY NOTES.

Get rid of the egg-eaters and the Club Leader, announced the state feather-pullers if you have some in

Crowded chickens won't pay any bet-

The droppings are one of the import

It never pays to expect two-hundred-Other cups were offered last year egg pullets from one-hundred-egg hens.

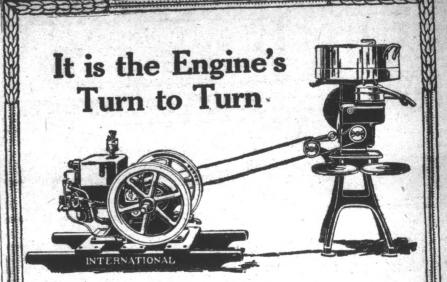
Improve the quality of your flocks

The farmer who says chickens don't fowls really do bring in...

There was great interest this year in Keep the drinking vessels of both

The way to break up a hen that a cage with a slatted bottom, which is Theodore planted a quarter of an a few inches off the ground. Usually

White Wyandotte Eggs for Hatching, Pan \$22.00 per 100 eggs. Pen No. 2 lic each egg, \$15.00 per 100 eggs. Flock No. 1, 120 each egg, \$15.00 per 100 eggs. Free range. Prize winning stock, Book orders now. Lone Elin Farm. EARLE R. MORRISH. Flint, Mich. R. 6.



EVERY dairy farmer who handles a large volume of milk knows that turning the easiest running cream separator in the world by hand gets to be monotonous work before the day's run is finished.

The Primrose Direct Power Drive has simplified greatly the matter of separation on a considerable scale. This practical little addition to Primrose efficiency can be attached to any hand-operated Primrose Cream Separator and does not interfere in any way with hand turning of the separator.

By means of this simple attachment, direct connection can be secured with an engine without speed-reducing gear, to a line shaft or portable electric motor.

If your milk volume has reached such proportions as to make separating a real task, then it is most certainly the engine's turn to turn. A 11/2 h.p. International Kerosene Engine and direct-power-drive Primrose will shoulder the job and handle it efficiently.

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OF AMERICA

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BABY CHICKS

English Stnain White Leghorns. The heavy laying strain at \$18.0 per 100 for April; \$16 for May. Prepaid by mall. Safe arrival guaranteed. LEO. M. LEOW, Dow. Mich.

Look! 100,000 for 1921. Box Old Chicks. Barred American and English: and Anconas. Write for free catalog. Fairview Hatchery, R. 2. Zeeland, Mich.

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BABY CHICKS, bred from stock with high egg records and show room quality. None better for filling the egg basket. Catalogue free. Ohls White Leghorn Farms, Marion, Ohio

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Rhode Island Reds erels at \$3-each. Address BURT SISSON, Imlay City, Mich

Rhode Island Whites If you have ever said there is no money in raising poultry try the R. I. White, stock for sale, order ahead.
H. H. JUMP. R. 5, Jackson, Mich.

R. C. Br. Leghorn Eggs, \$1.50 for 15. Pekin duck, \$1.50 for 8. W. Chinese goose eggs, 40c each. Mrs. Claudia Betts, Hillsdale, Mich

SELECTED WINTER LAYERS S. C. WHITE LEGHORN EGGS FOR HATCHING, laid by hens that averaged over two hundred eggs each last season. 15 Eggs 83.00; 30 \$5.50; 100 \$15.00. BABY OHICKS each week beginning March 1st, 15 \$7.50; 25 \$10.50; 50 \$29.50; 100 \$40.00 no catalogne,
Dunningville Poultry Farm, Dunningville, Mich.

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Chicks, Rose Comb Reds \$20 per 100. From farm range flock bred for eggs. Guaranteed arrival. Write for circular.

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S. C. Black Minorca Cockerels, selected stock. North-rap strain \$5.00. Eggs for hatching \$3.00 per 15. This stock lays year round. C.J. Deedrick, Vassar, Mich.

Superior Baby Chicks Strong, Healthy, Purebred, Anconas, Catalog, Superior Hatchery, Zeeland, Mich.

Thoroughbred Golden Wyandotte Cockerels \$5.00. pullet \$3.00. Write H. C. SCHLICHT, Thomas, Mich

WHITTAKER'S R. I. REDS erels, Chicks and Eggs. INTERLAKES FARM,

White Wyandottes: Pullets each. Pens \$25,00 Cockerels from hens with 207 egg average \$5.00 and \$6.00 each. Eggs \$2.00 per 16. FRANK DeLONG, R. 3, Three Rivers, Mich.

White Wyandottes Winners Chicago strong, sturdy, good breeding Cockerels at \$5.00, \$7.50 and \$10.00. H. J. RILEY, Box M, Hillsdale, Mich.

60 BREEDS chickens, ducks, geese, turkeys, guineas, pigeons, hares, dogs. Fine illus, and desc. catlog only ibc. hares, dogs. Fine illus, and desc. catlog only ibc. Sellersville, Pa.

Giant Bronze Turkeys,

Fine vigorous pullets 16-18 lbs, splendid color. Young toms 27-29 lbs. N. Evalyn Ramsdell, Ionia, Mich.

White Holland Turkeys White African Guineas 80 Reference C. H. Burgess, Prof., Poultry, Mich. Agri. College Farm for sale. Alden Whitcomb, Byron Center, Mich.

For Sale Mammoth Bronze Toms Hugo Strain teed. Mrs. Walter Dillman, R. 5, Dowagiac, Mich.

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"SUCCESSFUI" Grain Sprouters. DES MOINES INCUBATOR CO. 28 Years of 368 Second St., Des Moines, la. Big Successes



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We cull our flocks 3 times, 1st in early fall, 2nd just before winter sets in and again before the breeding season.

The regular hatchery man can not do this as he does not own the flocks but buys the eggs. Our supply is limited therefore place your orders arly. Prices quoted on application.

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make a big income. You
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Chicks Baby Chicks
Single Comb White Leghorns a Specialty
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and hatching eggs from select heavy producing stock. Delivery guaran-leed. Wh. Leghorns, Bar. Rocks, W. Wyan., S.C. Reds, B. Orp. Cat. free, GOSHEN POULTRY FARMS, S-18 Geshen, Ind.

Championship Poultry Show

Exhibits Were Best Ever Shown at M. A. C. By Prof. C. H. Burgess

NOTHER show has come and W. Simpson, Webberville, second cock, gone at the college, and as the first hen, first cockerel, first pullet, clouds rise and the atmosphere white Langshan.—Dr. Charles W. White Langshan.—Dr. Charles W. clouds rise and the atmosphere clears, we are ready to state that it was one of the best, as well as one of the biggest, ever held at the college. Every year shows a marked improvement in the breeding quality of the ment in the breeding quality of the let. birds on exhibition. The show was S

Judges W. H. Card and D. E. Hale, pen Judges W. H. Card and D. E. Hale, White Crested Black Polish.—H. S. placed the ribbons. Many of our ex-Lisle, Ann Arbor, first cockerel, first, placed the ribbons. Many of our exhibitors were fearful that the interpretation of the standard of the mid-west and the far-east judges would be widely different. This was one of the reasons why Judge Card, of Connecticut, and Judge Hale, of Chicago, were chosen as judges. So far as I have been told, both men agreed upon the intertold, both men agreed upon the inter-cockerel, second and fourth pullet, sec-

change the original room for one that second cockerel; Joseph Toynton, first would handle a crowd four times the cock, first hen; Vern Jipson, Lansing, size and then there was only standing third cockerel, second pullet; Douglas size and then there was only standing room to be offered in limited amount. Both judges participated in discussions and demonstrations. The chalk talk of Judge Card, on the evening of February 2, was not only instructive, but very entertaining as well. His pictures with the cockerel, first cock, first cock, first cock, first cock, first cock, third cock, third hen, second cockerel; A. E. Fuller, Northville, first cock, first hen, first cockerel, first old nen, first cockerel, first ockerel, first cockerel, first ockerel, first cockerel, first cockerel, we have cockerel, first cockerel, first cockerel, first cockerel, first cockerel, first cockerel, first ockerel, first o size and then there was only standing were finished in color. On the evening cockerel, first pullet, first old pen, first of February 3, the poultry department second cock, second hen, second pullet. gave an informal recepition and luncheon, where elbow touched elbow.

eon, where elbow touched elbow.

As stated above, the exhibit was of very high order. Two hundred and thirty-five birds constituted the entry. Fifty-six exhibits were made in number. Seventeen counties were represented. Bay, two exhibits; Berrien, four; Calhoun, three; Cass, three, Eaton, two; Ingham, ten; Ionia, three, ens, all awards.

Silver Laced Wyandottes.—C. B. Browning, Courtland, all awards.

Golden Laced Wyandottes.—C. B. Browning, all awards.

White Wyandottes.—Henry Van Hoven, Zeeland, first cock, first cock, first pullet.

Light Brahma.—Allan & Douglas, Pontiac, first cock, first hen; Harold on, two; Ingham, ten; Ionia, three, Jackson, one; Lenawee, one; Macomb, one; Oakland, nine; Ottawa, two; Saginaw, three; Shiawassee, one; Tuscola, one; Washtenaw, five; Wayne, five. The most popular breeds in the way of number in exhibit were Rhode Island Reds and Barred Rocks. Some of the finest quality stock in both breeds were offered. The Orpingtons were especially high-classed, so also the White one; Oakland, nine; Ottawa, two; Sagpecially high-classed, so also the White Golden Sebright.—Frank J. Fritsch, Plymouth Rock. The finish and condiall awards. tion of the White Rocks, the White Leghorns, along with their standard Niles, all awards. Lieghorns, along with their standard type, made them winners in the silver and the gold and diamond classes. Time and space will not permit the discussion of each exhibit, but let the writer say that every exhibit was high-class. S. C. Ancona.—E. S. Tray, Jackson, first cockerel, first pullet; W. E. West & Son. East Lansing, first and second Science & Standards & Son. East Lansing, first and second Science & Standards & Son. East Lansing, first and second Science & Standards & Son. East Lansing, first and second Science & Standards & Son. East Lansing, first and second Science & Standards & Son. East Lansing, first and second Science & Standards & Son. East Lansing, first and second Science & Standards & Son. East Lansing & Standards & Son. East Lansing &

S. C. Black Orpington.-John Miller, staged in the new laboratory and was visited by more than six thousand of the leading farmers of the state. For the first time ducks, geese, and pigeons were shown along with other poultry.

S. C. Black Orpington.—John Miller, Farmington, first cockerel, first pullet. Son, Detroit, first cock, second hen, second cockerel, second pullet; H. A. Jackson, Clawson, second cock, first were shown along with other poultry.

told, both men agreed upon the interpretation of the standard. The Rhode Island Reds and the Barred Rocks that won at the grand championship show would be in the winning, whether they were shown in Chicago or Boston.

An educational feature was held on February 2-3. The lecture room was crowded to the limit at each lecture and demonstration. In fact, we had to change the original room for one that second cockerel; Joseph Toynton, first second and fourth pullet, second young pen.

R. C. R. R. Reds.—A. N. Walker, Battle Creek, all awards.

Dark Barred Rocks.—H. E. Powell & Son, Ionia, fifth cock, third hen, fourth and fifth cockerel, first pullet, first young pen; Rose-mary Farms, Williamston, fourth cock; Dark Barred Rocks.—H. E. Powell & Son, Ionia, fifth cock, third hen, fourth and fifth cockerel, first pullet, first young pen; Rose-mary Farms, Williamston, fourth cock; Dark Barred Rocks.—H. E. Powell & Son, Ionia, fifth cock, third hen, fourth and fifth cockerel, first pullet, first young pen; Rose-mary Farms, Williamston, fourth cock; Dark Barred Rocks.—H. E. Powell & Son, Ionia, fifth cock, third hen, fourth and fifth cockerel, second hen, third pullet, first young pen; Rose-mary Farms, Williamston, fourth cock; Dark Barred Rocks.—H. E. Powell & Son, Ionia, fifth cock, third hen, fourth and fifth cockerel, second hen, third pullet, first young pen; Rose-mary Farms, Williamston, fourth cock; Dark Barred Rocks.—H. E. Powell & Son, Ionia, fifth cock, third hen, fourth and fifth cockerel, second hen, third pullet, first young pen; Rose-mary Farms, Williamston, fourth cock; Dark Barred Rocks.—H. E. Powell & Son, Ionia, fifth cock, third hen, fourth and fifth cockerel, second hen, third hen, fourth and fift

Partridge Rocks.—H. G. Lewis, Ath-

ens, all awards.

Pontiac, first cock, first hen; Harold Frank, Bay City, first cockerel, first pullet.

Buff Wyandotte.-B. Hazelton Smith,

& Son, East Lansing, first and second Ypsilanti, all awards.

cock, first hen, first pullet. Toulouse Geese.—W. T. ShuttleR. C. Ancona.—W. E. West & Son, worth, all awards.

first cockerel, first pullet; B. H. Mc
Medals were awarded as follows: In

R. C. Ancona.—W. E. West & Sou, first cockerel, first pullet; B. H. McComb, Caro, first cock.

Buff Cochin Bantams.—Vern Eckhart, Vermontville, first young pen.
Buttercups.—Charles M. Hewer, Plymouth, first cockerel, first pullet; Wm. Kamienski, Vermontville, second cockerel, second pullet.

Dark Cornish.—Wm. Whittaker, Detroit, first cock, first hen, first cockerel, first pullet.
Houdan.—Wm. Beadle, Marcellus, first cock, first hen, first cockerel, first pullet.

S. C. White Leghorns.—A. D. Isbell, S. C. Black Minorca, best cockerel; Wm. Allan & Son, S. C. Buff Orpington, best hen, best cockerel, first old pen; F. J. Kueffner, Saginaw, third cock, second hen; W. T. Shuttleworth, S. C. Buff Orpington, best hen, best pullet; H. S. Lisle, White Crested Black Polish, best pullet; Grove Carpenter, S. C. R. I. Red, best pullet; S. J. Arnold, S. C. R. I. Red, best pullet; Charles H. Wright, Dk. Barred Rock, best cockerel; Joseph Toynton, Dk. Barred Rock, best cock, best



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S. C. W. Leghorns, \$15.00 per 100; S. C. B. Leghorns, \$17.00 per 100; S. C. B. Leghorns, \$17.00 per 100; English S. C. W. Leghorns \$17.00 per 100; S. C. Anconas \$17.00 per 100; S. C. Anconas \$17.00 per 100; S. C. Barred Rocks \$18.00.

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R. 5

Holland, Mich.

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from free range, carefully selected stock, hatched by experts in a real up-to-date hatchery. We specialize in 14 leading breeds. Safe delivery guaranteed by P.P. prepaid. Write for catalog.

OVIE'S POULTRY FARM & HATCHERY

HOMESTEAD FARMS It will pay you in selecting Chicks for the coming sea-son to consider the quality of our

> Pure Breed Practical Poultry We will send you our new spring Catalog, which explains this breeding. Also the catalog tells how to brood your Chicks suc-cessfully; it describes our

High Class Egg Leghorns And All Standard Breeds Both Chicks and Hatching Eggs from all breeds guaranteed, and delivered post paid.

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Crescent Strain S. C. White Leghorns
Black Leghorns. Brown Leghorns, Bull Leghorns,
Black Minorcas, Rhode Island Reds, Barred Plymouth
Rocks, (also White), Wyandottes, (Giver laced and
White) and Mottled Anconas. WE HATCH regs bond
flocks on range on separate farm. Send for booklet,
containing much of value to poultry raisers.

CRESCENT EGG COMPANY, Allegan, Mich.

Anconas Bred-to-Lay and Exhibit, baby chicks and hatching eggs, Send for mating list. Manning's Ancona Farm, Coldwater, Mich Baby Chicks from fine stock, to office eggs, at utility prices. Catalogue FREE. Loe's Poultry Farm & Hatchery, Edison, ©.

A. E. Fuller, White Rock, best cock, best hen, best cockerel, best pullet; Wm. H. Forster, White Wyandotte, best pullet; Irvin Shepard, Buff Rocks, best hen, best pullet; Frank Mitchell, R. C. Brown Leghorn, best cockerel, best hen. Winners of Silver Medals.

Winners of Silver Medals.

Four silver medals were awarled on the best pen in each of the following classes, American, English, Mediterranean, Asiatic. A. E. Fuller won the silver medal on the best pen in the American class, White Plymouth Rocks; H. A. Jackson, Clawson, best pen in the English class, S. C. Buff Orpingtons; A. D. Isbell, Stockbridge, best pen in the Mediterranean class, S. C. White Leghorns: Dr. Charles W. C. White Leghorns; Dr. Charles W. Simpson, Webberville, best pen in the Asiatic class, Black Langshans.

One Gold Medal Awarded. A solid gold medal was awarded the best pen, all breeds competing, in the show room. A. E. Fuller, Northville, was the winner, White Plymouth Rocks.

Two Diamond-set Medals.

Two diamond-set medals were awarded as follows: For the best cockerel and the best pullet in the show room all breeds competing. A. D. Isbell won best cockerel, S. C. White Leghorns; A. E. Fuller, best pullet, White Plymouth Rock.

POULTRY ASSOCIATION MEETS.

(Continued from page 226). coop and number of birds in the house. It is no test to caponize fowls and then kill them at six or eight months of age. They should be held a longer time. Good luck is reported in catching hawks with a trap on a pole ten or twelve feet high placed near the poultry range.

Culling by Burgess.

In the last talk by Professor Burgess he gave a practical demonstration of culling illustrated with good and bad birds from the college plant. Such demonstrations help the breeder to form the image of good hens in his mind and the writer believes that it pays to attend such exhibitions whenever possible. Professor Burgess states that he does not believe the two-hundred egg flock will be prevalent on the farm. When a hen passes the one-hundred mark she can make a profit. One hundred to one hundred and twenty egg averages are good. A one hundred and forty-egg flock has a fine egg average. No three hundred-egg hens have been produced at the college poultry plant.

He says that Michigan breeders have good stock and it is not necessary to go hundreds of miles away in order to obtain good hatching eggs or breeding stock. Last year one million hens were culled in Michigan and more culling work was done by the county agents of Michigan than was done in any other state in the Union. The good producing hen has an intelligent appearance, while the slacker is not intelligent looking. The heavy layer moults rapidly. Slow-maturing fowls are not good layers. At the college plant the cost of artificial lights is one cent per night for sixty hens.

In addition to the program of lectures the college staged a poultry show which brought out many beautiful specimens of our standard breeds. Many farmers not particularly interested in poultry still had time from other lectures to visit this show and note the progress made during the last year. The awards are published elsewhere in this issue.

The nests for laying hens should be overhauled and renewed two or three times during the season, the boxes being painted with coal oil to kill lice. while fresh nesting material should be abundantly supplied. The nests for sitting hens should be renewed every time a fresh batch of eggs is set.

Fowis do not need to be continually "doped" with stimulating food or drugs. Pure food, exercise and good care are the main requirements.

One of the best formulas for feeding fowls runs something like this: Feed a little of everything. Feed enough, but not too much. Feed regularly.

Michigan's Largest Pedigree Poultry Farm

kewood's Peerless Layers

The quality of chicks depend upon the records of their ancestors. Official records from 200 in 9 months to 310 eggs in one year. Write for Catalogue.

Leghorns, Rocks, Reds, Wyandottes Holland, Mich. Lakewood, Farm, Box B.

Hubers Reliable Chicks 700,000 For 1921.

By Parcel Post Prepaid. By Special Delivery. Guarantee Live Delivery. Eggs for Hatching by Setting or 100.



ing by Setting or 100.

We have installed the most modern features of the Hatching Industry, which will insure chicks as strong as Hea Hatched Chicks and full of pep. This is our 12th season. With the great increasing demand for our chicks and the fine Testimonials, Photos, Show Reports and Wonderful Egg Records we receive from our customers proves that our chicks from stock of Good Quality, Bred for Heavy Egg Production and that they are Properly flatched. To insure success buy our Reliable Chicks. We hatch all our chicks from pure bred, free range farm stock. S. C. White and Brown Leghorns, S. C. Anconas, Barred Rocks, R. C. and S. C. Reds, S. C. and R. C. Special combination offer on chicks /and brooder stoves. Before buying elsewhere send for illustrated extalog and prices. Place order atomes and avoid disappointment in the rush of the season.

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Postage PAID, 95%
live arrival guaranteed.
FREE feed with each order, 40 breeds chicks, 4
breeds ducklings, Select and Exhibition grades,
A hatch every week all year. Book your order
NOW for early spring delivery. Catalogue free.
stamps appreciated.
Gambier, Ohio stamps appreciated.
NABOB HATCHERIES,

Barred Plymouth Rock Cockerels Big boned, Rock type, well barred, bred to lay birds, with lots of pep. \$4.00 and \$5.00.
CHAS. H. WRIGHT, Jones, Cass Co., Mich.

Barred Rocks egg contest winners, eggs from strain \$2.00 per setting prepaid by P. P. Circular free. FRED ASTLING, Constantine, Mich

BEST Breeds, Chickens, Ducks, Geese, Turkeys, Guin-eas, Hares, Dogs. Stock for sale. Write your wants. Catalog free. H. A. Souder, Box 94, Seltersville, Pa.

Baby Chicks Good big healthy chicks of show room quality at utility prices. Catalogue free. Sycamore Hatchery, Sycamore, Ohio

Barred Rock Chicks. Booking orders now for early hatches, 100% safe delivery. Circulars and prices on application. H. H. Pierce, Jerome, Mich.

BABY CHICKS ched from free range stock. Quality and live very guaranteed. Write for catalogue. STILLWATER HATCHERY, Covington, Ohio.

BARRED Plymouth Rock cockerels for sale, some Dnice thrifty birds from prizewinning stock \$4 and \$5. George H. Campbell, R. 5, Box 70, Ypsilanti, Mich.

Baby Chicks and Eggs for Hatching
Barron's White Leghorns. Barred Rocks and R. I.
Reds. Big sturdy chicks from free range stock with
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100 March hatched, Barron strain, S.O. White Leghorn cockerels. Large, vigorous, pure white birds \$3 and \$5 each. R.E.McInerney, R.I., Frankenmuth, Mich.

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Hatching eggs, 8 varieties, Circular FREE,
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Additional Poultry Ads.on Page 243

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Save \$1000

We have just received a large cargo of Melotte Separators and when remitting to Belgium, the exchange was so favor able that we were able to save \$10.00 per separator. We are giving this to you as long as the cargo lasts. This is your gain if you take advantage of it at once. But you must act at once in order to save \$10.00.

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You, who have wanted the world's greatest You, who have wanted the world's greatest separator, write for catalog right away. Find out why 500,000 Melotte Separators are in use today. Before buying any separator find out how the Melotte has won 264 Grand and International Prizes and every important European contest. Mail the coupon now for our great offer.

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The Melotte Separator, H. B. Babson, U. SMgr.

Natco Hog Houses Natco Hollow Tile. The three hollow spaces filled with air in a Natco wall provide perfect Help Save the Pigs in a Nation will provide perfect insulation through which heat, cold or moisture will not pass.

Build the farrowing houses of Thus Natco Hog Houses

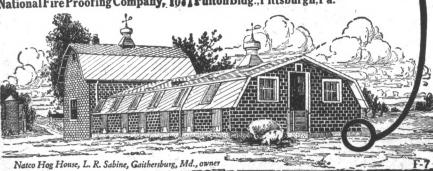
warm in winter and cool in summer. Moisture does not condense on these walls as on other forms of masonry. And the smooth glazed surface of Natco walls is easy to disinfect—it affords no hiding-place for germs or vermin.

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Dairying at Farmers' Week

Visitors Compliment College on Dairy Exhibit.

among the best.

sessed that quality of purpose which action. so appealed to the educational and aesthetic senses, that of the myriads the building was given over to the of exhibits of the various departments dairy products exhibits. It was dividand mystifying amounts of scientific ed about equally between cheese, butapplications, the dairy exhibits so ter, ice cream and market milk and stood out that its four divided groups their problems pertaining to marketcould easily be associated in the minds ing. Some of the problems shown were of the dairymen.

W. B. Liverance, of New York. The space. exhibits prepared for this group were added to the following week until the side of the building was the dairy entire east section of the dairy build- lunch where around eight hundred peoing was given over to a splendid dis- ple were served each day, thus assertplay of dairy products, showing the ing the fact that dairy products are not major problems of the dairy industry necessarily consumed for their food from the manufacturing standpoint.

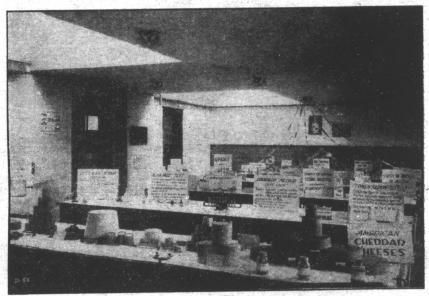
The Farmers' Week visitors were well. first introduced to dairying upon entering the general exhibit in the pavilion prove dairying in the state as carried

T has been brought to the attention exhibit in methods of handling dairy of the writer through visitors at the products. Because of classes the marcollege during Farmers' Week that ket milk, cheese, ice cream and butter of all the many wonderful exhibits and rooms were closed for periods in the problems shown pertaining to agricul- day. The separator room was given ture, that of dairying should be rated over to problems pertaining to care of milk and cream on the farm. It also Isolated and divided as it was, it pos- showed twelve different separators in

The east side of the second floor of cream grading, the value of quality of In reality from the dairy manufac- product, difference in price between turers' standpoint, Farmers' Week processor and consumer, marketing started the week before, when exhibits value of attractive packages, effect of were arranged for, the assembling of moisture content on marketing, relacreamery men from all over the state tion of butter-fat in milk to the amount for a four days' study of the new of cheese produced, amount of differcream grading problem so as to pro- ent score butter necessary to bring duce quality of product. These meet- \$5.00, and many others of equal imings were addressed by such men as portance, in all covering approximately Professor Bouska, of Chicago, and Mr. nine hundred square feet of table

Opposite this exhibit on the west value alone, but to satisfy the taste as

The magnitude of the work to im-



One Corner of the Dairy Exhibit.

liberally dairy products so highly rec- cial and Association Cow Testers." ommended by that department as life It has long been conceded that the

see why the dairy industry of Michi- in the lead of any other class of agrigan is the largest and best organized culture in regard to efforts being made branch of agriculture. From the bull for improvement. barn, placarded to tell of the progenitors of breeding experiments, to the tops of the dairy building where the

over to visitors and in itself was an duces the curvature of the roadway.

of the agricultural building where sup- on by the college might be gained by plementing the domestic science ex- one banner carried in the parade, stathibit a booth was prepared to dispense ing "We Represent Seventy-five Offi-

necessities. Also the farmer was here scales and Babcock test were the only invited to visit the major exhibits pre- true measure for determining the profpared in the dairy barn and the dairy itability of dairy cows, and this effort alone, that requires seventy-five cow-Upon visiting these it was easy to testers, puts dairying in Michigan far

ROAD WORK TO BE PUSHED.

finished product in the form of dainty NEXT spring work on the new "Barcheese sandwiches or hot oyster stew aga Trunk-Line" road which will was served, was presented the major connect Marquette with the head of problems pertaining to dairying from Huron Bay and thus open up a new, producer to consumer. The main dairy scenic route to the copper country, and barn, besides its many breeds of dairy which also affords a second route becattle found on Michigan farms, show- tween Marquette and Negaunee, will ed the results of such problems; as, be resumed. The plan calls for the the third cross of a pure-bred Guernsey concrete surfacing, next spring, of the bull on a scrub cow and her descend- Marquette-Negaunee branch, the founants, self-feeders for calves, cows test- dation work for which has been cared for milk records, calf-feeding as con- ried out during the past season, and ducted by students of the college, fair the gravelling of section "D" towards prize winners, leaders in production, Baraga county. This new route eliminates railroad crossings between Mar-The entire dairy building was given quette and Negaunee, and greatly reTHE CONDENSED MILK MARKET.

W HILE conditions affecting the condensed milk industry have changed very little during the past month, there is some revival of faith in the industry at the present time. While there have been no large orders of late, domestic consumption has been at least normal and shipments have been going regularly to fill foreign or-Stocks are gradually melting away and some of the plants which closed early in the fall are again operating and others will undoubtedly open with the advent of spring. One of the large corporations which closed practically all its plants in October will open several of them in the near future. The great concern of that corporation is whether or not it can again secure the patronage of the farmers who formerly supplied it with milk, in view of the fact that its former patrons are now well organized and the company refuses to deal with the organization.

There has been some reduction in the asking price of some of the well advertised brands of case goods. In addition, demand for powdered milk is at low ebb, which is responsible for a material decline in the price of that product. On the other hand, bulk quantities of fresh-made sweetened whole condensed milk has shown a slight advance in price. The fact remains, nevertheless, that conditions have improved very little and that demand will be but nominal during the months to come as there is no factor operating at the present time to stimulate the consumption of condensed milk products. Without doubt, there will be a greater demand for bulk goods during the ice cream season, but that demand will be seasonal and will have no permanent effect on the industry in general.-L.

AGRICULTURAL CLUB ENTER-TAINS SPEAKERS.

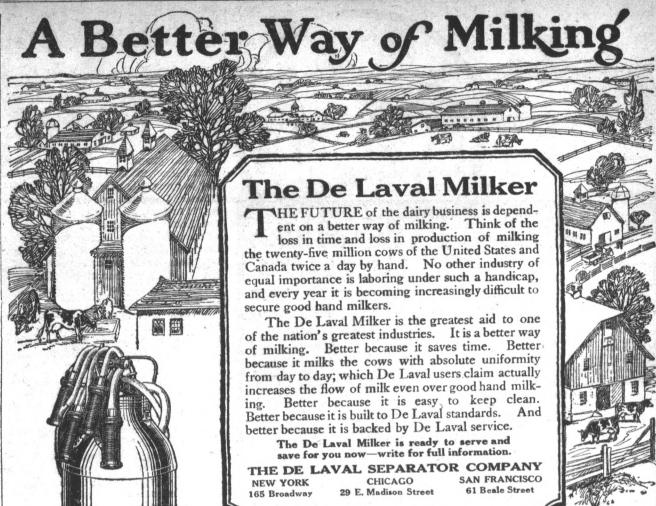
THE Agricultural Club of the College entertained several of the speakers at a banquet during the noon hour Wednesday, of Farmers' Week, following which informal talks were given by several of the guests.

Eugene Davenport who was first called upon advised that young people should disregard the manufacture of those things which cannot be consumed. He touched upon the question of taxation for educational purposes stating that the amount that each individual pays for this purpose is small indeed compared with what we thoughtlessly spend in other ways.

Former Congressman Lever stated that agriculture now needs farm leadership. If the men who are in the colleges training for agricultural work live up to their opportunities they will undoubtedly be the ones from whom the leaders of agriculture of the future will be chosen. Mr. Lever explained the Lever bill, food control act and other important legislative matters. Do not be misled by the rabid, he continued, but keep your feet upon the ground. And further, do not expect the government to solve all your problems for the real solution must come through self help. It should be our ambition to leave some heritage to future generations.

Mr. Roberts, of New York, stated that the nation is now suffering from over-urbanism. The country supplies the life blood to our cities. That supply is now threatened and it is necessary to conserve the supply by moral and social leadership as well as along economic and technical lines.

H. N. Wentworth, of Chicago, said that the trend of the mind today was too much toward knocking the fellow down when he is up rather than trying



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down when he is up rather than trying to climb up with him. The farm bureau is one of the greatest steps in the development of agriculture.

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An actual fact,—this is. Mrs. Louis Mc-Cutcheon of Kitchener, Ontario, bought a mare for \$100\$. The mare absolutely refused to work. Even to harness her was a day's work in itself. She kicked, bit, balked and shied at everything. No one on the farm could do anything with her. Then a neighbor told Mrs. McCutcheon the secret of his own mastery over horses—and how she too could learn it.

oo could reach it.

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of sell the mare for \$297 more than she paid for it.

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UNITED ENGINE COMPANY (26) Lansing, Mich ***********



Upper Peninsula News

By L. A. Chase

give each local one bushel for seed and of Gogebic county. the yield used for the next year's seed. Gogebic county has ordered two cars Mr. Geismar is reported already to of TNT for land clearing. The price have a large number of individual or- is put at ten cents per pound. ders for this potato in advance of the Consider Change in County Governfarm bureau's supply.

and he has served as expert advisor of Soo Times. the Wisconsin Conservation Commisdepartment of biology.

tion. A barbecue for Labor Day, with which nearly one-third is in Michigan. sports in connection, is on the cards Horse races will feature this occasion book is now being arranged.

More Good Cows.

Press, of Ewen.

HE Calumet News states that butter-fat. The result is regarded as L. M. Geismar, county agricul- justifying the care that the owners tural agent of Houghton county, have taken in breeding for production. has located a supply of russet potatoes These cows come from herds where in Baraga county, and has arranged pure-bred sires have been used for with the grower to sell seed to the twenty years or more. The foregoing farm bureau in the spring. It is plan- seems to show that our Finnish and ned to grow this potato in large quan- Swedish farmers are not hopelessly tities in Houghton county and to mar- conservative in their agricultural methket it under the designation, "Hough- ods. A number of pure-bred Holsteins ton Russet." The farm bureau will have recently been added to the herds

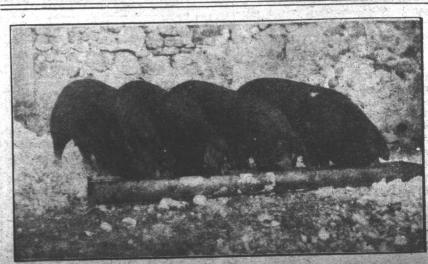
ment.

Dr. John Lowe, of the Northern State A committee of the Chpipewa county Normal School, is making studies of board of supervisors has considered heredity in relation to egg production the proposed change in county governin hens, and has a small flock of thor- ment, and has approved the proposal oughbred Wyandottes as the subject of that the legislature submit to the vothis investigations. Recently he exhib- ers an amendment permitting, under ited some of his hens at the Fox River general laws, that counties should Poultry Show in Wisconsin and won a frame their own charters. It is anticifirst and second prize. Then he took pated that some of the rural supervisa first at the Northern Wisconsin Poul- ors will oppose the resolution of the try Show held in Superior, and a first committee, favoring such an amendat the Northern Minnesota Show at ment to the state constitution, when it Duluth. Dr. Lowe does not pose as a again comes before the supervisors at chicken expert. His specialty is fish, its March meeting, according to The

One sometimes hears it asked how sion. But the results here noted seem long will the reserves of mineral in to point to some capacity in another the Lake Superior district hold out. The end of the deposits of iron and The Dickinson County Fair, to be copper are by no means yet in sight. held at Norway the first week of Sep- The Gazette, of Iron Mountain, recenttember, is now being prepared for and ly quotes an article in the Iron Trade assurances are forthcoming that it is Review, ascribing to the Lake Supeto be the best ever. The grounds and rior district a reserve of marketable buildings are to undergo some renova- iron ore of some 2,500,000,000 tons, of

Improving Labor Conditions.

An important conference of upper The Dickinson County Fair Association peninsula industrial leaders and busijoined the American Trotting Associa- ness executives will be held in Escation, last year, it is stated, and so is in naba on February 22, under the ausline for superior material for these rac- pices of the Delta District of the Ines. Farm products and live stock are dustrial Relations Association. A banalso to feature the fair in a high de- quet will be held in the evening at gree, we are assured. The premium which the principal speaker will be Mr. John Calder, M. E., manager of the Employers' Relations Department of The Ontonagon County Farm has Chicago. The purpose of the gathering two thoroughbred cows with excellent is to form an upper peninsula chapter records. One of them produced 618.8 of the Industrial Relations Association pounds of milk, and 30.48 pounds of national organization, with a view to butter in seven days. Another animal the extension of the work already gohas a record of 2,012.2 pounds of milk ing forward in Delta and adjoining and 94.36 pounds of butter in thirty counties to the whole upper peninsula. days, as reported in the Cloverland I have already written of this work for The Michigan Farmer, Its idea is much The records of the Gogebic County like that of community service but un-Cow-testing Association contained der the direct control of the business some pleasing information for farmers managers and their employes. It inof the district at the end of December, volves the establishment of community says the Ironwood News-Record. One centers and good, healthy entertaingrade Holstein produced 1,915 pounds ment at the outset, Americanization of milk with a yield of 86.1 pounds of and other work as soon as conditions butter-fat. Another cow yielded in are ready for it. I have already writ-January 2,489 pounds of milk, testing ten of the undertakings of the Northfive per cent, yielding 124.4 pounds of western Cooperage Company in this



A Group of Tried Sews. Owned by P. P. Pope, of Isabella County.

connection, which is one of the twentyeight firms already associated in the Delta District Industrial Relations Association. There is no fixed plan of procedure, individual units being left the utmost freedom of action, as I gathered from a conversation with the manager of the association recently. The ultimate principle upon which the work proceeds is good will, mutual frank understanding, give and take. The practical importance of this work is seen in times like these when employers find it necessary to reduce expenses and wage cuts and shut-downs are in order. With the right attitude on both sides, such crises can be passed with much less friction than otherwise might occur. I am told that, when the superintendent of one concern in northern Michigan had presented to him the alternative of reducing wages or closing shop, he was brought to do what for him was an unprecedented thing-call in the men and frankly lay the whole case before his employes telling them of his fears and difficulties. This plant had had a nasty strike some time before and the superintendent was fearful of trouble if wages were reduced. But the work already carried on among his men by the Industrial Relations Association had wholly altered the attitude of employer and employes, and the outcome of the conference was a satisfactory adjustment of the situation involving a lower level of wages but no shutdown of the plant. Now the effort is to be made to interest employers in other upper peninsula districts in this work, and the whole matter will be threshed out at the Escanaba conference. It appears to be necessary to organize the work in a district of somewhat restricted size, and there would seem to be room for separate associations for the Marquette and the Gogebic iron ranges and for the copper country, at least. It is understood that Community Service Incorporated is prepared to relinquish this field to the Industrial Relations Association, when it is ready to undertake the work.

GETTING RID OF WOLVES.

A REPRESENTATIVE of the Biological Survey of the U. S. Depart ment of Agriculture has been working in the district for some time seeking to deal effectively with the wolf problem. Not only here but in many parts of the United States wolves have be come more of a nuisance than formerly and the survey has increased its activity in the direction of their extermination. According to the Gazette, of Houghton, Mr. Ligon, of the Biological Survey, has been opearting in Houghton and Baraga counties of late. His method is the skillful use of poison (strychinine), and it requires a good deal of skill to outwit this clever beast. Farmers are given instructions as to its proper use. Mr. Ligon regards Michigan's bounty laws as unusally generous, but evidently quite ineffective. According to a deputy game warden of Houghton county, trappers are pursuing their vocation with less eagerness this year, due to the decline in the price of furs, muskrats for instance, now selling as low as forty cents a pelt. Five dollars is said to be a high price for mink.-C.

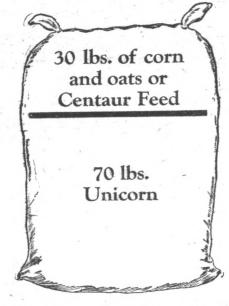
The South Dakota Farm Bureau Federation tells its, members of the immensity of the farm bureau movement in the following manner: "If all the farm bureau members of the United States were to march down the main street of your city at the rate of five thousand a day it would take the line about ten months to pass the post

The number of children attending the rural schools of Dickinson county, but given out, is 1,900.

Ten heifers, six builts from eight to fearteen months. Best of breeding, the growthy kind that make good. Beason, but given out, is 1,900.

"High-Priced" Unicorn Makes Low-Cost Feed

Feed this way with clover hay



For November, four out of the ten highest cows in all Indiana cow testing associations were fed Unicorn.

Average milk . . 1609.5 lbs. Average fat . . .

Those who are not feeding Unicorn say that it is "highpriced."

Those who are feeding Unicorn say that it gives them a greater profit than they can get with any other feed.

The Unicorn feeders know that it's not the price of a thing that counts, but how much you get for your money.

There's more milk and more profit in a ton of Unicorn than there is in a ton of any other feed -home-mixed or boughten.

Use Unicorn and cut down your feed bills. Goes farther. Lasts longer. Actually costs less—not more.

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THE HOME OF

Imp. Edgar of Dalmeny

The World's Greatest **Breeding Bull**

Blue Bell, Surreme Champion at the Smith-field Show 1919, and the Birmingham Show 1920, is a daughter of Edgar of Dalmeny.

The Junior Champion Bull, Junior Champion Female, Champion Ca f Herd and First Prize Junior Heifer Calf, Michigan State Fair, 1929, were also the get of Edgar of Dalmeny. choice lot of young bulls-sired by Edgar of Dalmeny are, at this time, offered

Send for Illustrated Catalogue

WILDWOOD FARMS ORION, MICHIGAN

W. E. SCRIPPS, Prop.

Sidney Smith, Supt.

For Sale

Woodcote Trojan-Ericas

We are offering ten cows bred to either IMP, ELCHO OF HARVIESTOUN, or IMP, EDGARDO OF DALMENY Write for our 1971 BULL SALE LIST Woodcote Stock Farm.

Cows and Heifers Bred to
Blackcap Brandon of Woodcote 2nd
For Sale
GEO. HATHAWAY & SON. Ovid. I

Reg. Aberdeen Ang s bulls and heifers from 6 to for heeding, also Berkshire Swine, boars ready for service and pigs both sex singles, pairs or trios, will accept Liberty Bonds.

RUSSELL BROTHERS, Merrill, Mich.

The Village Farm Guernseys offer for sale: The Pride of Sweet Orchard Farms No. 55057. Dropped Dec. 3 1919 ready to head your herd, his full sister now on A. B. test has milked over 2000 (bs. 90 lbs. fat in 50 days. Sire Langwater Wilchester (2905), dam Governor's Minnewaska 24 milking 45 lbs. daily (38d.8). Sire Langwater Advocate (2004), dam Imp. Gov's. Minnewaska (2924). First check of 250 takes him. Rex Griffin, Herdsman. O.J.Winter, Owner, Sebewaing, Mich.

Guernsey Foundation

Twosoung cows and buil not related. All out of Adv. Reg. dams. Other cows with A. R. records up to 600 lbs. fat. Inspection invited.

PAUL LOVE, St. Austell Farms, Jackson. Mich.

FOR SALE CHEAP Three Guernsey Bulls fourteen months old registered. Five Guernsey Heifers coming two year old and and bred grade stock. JOSEPH A. SUHROEGER, Box 77, Merriman Road, Wayne, Mich.

Registered Guernseys A bull Calf, nearly ready for light service, at a price, you will pay, don't wait long on this fellow.
J. M. WILLIAM, No. Adams, Mich.

Cuernseys. Federal Inspected. Only 1 serviceable Jage bull left. Born Nov. 1919. Dam's and sire's dams A. R. records over 400 lbs b. f. Class G. Traces 3 times to Imp. Masher Sequel. Will ship on approval. Three bull calves under 7 mos. G. W. & H. G. Ray, Albion, Mich.

GUERNSEYS -REGISTERED CALVES Containing blood of world champions. HICKS' QUENNEY FARM, Saginaw, W.S. Mich.

Guernsey Bulls of May Hose Breeding Their dams have records 40 to 650 lbs, fat also a few cows and heifers are offered. H. W. Wigman, Lansing, Mich.

GUERNSEY BULL CALVES whose 19,400.20 milk, 209.05 fat. Their mother's stre's dam made 15,209.10 milk, 78:39 fat.

CLOVERLY ANGUS For Sale Six registered Rose breeding ready for service. Cheap if taken soon. John Ebels, R. 2, Holland, Mich.

Registered Guernsey yearling bulls Dolly Dimple's to sell. Geo. W. Reeves, R, 7, Grand Rapids, Mich.

The Traverse Herd

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

TRAVERSE CITY STATE HOSPITAL Traverse City, Mich.

A Good Note accepted in payment of finely bredreg-of the best, and at prices within reach of all. Write, GEO. D. CLARKE.

Here Is A Good One.

Born June 2nd, by Maplecrest De Kol Hengerveld, A sire having three si-ters each with records of over 1200 pounds of butter in a year, two of them former world hampions.

(alf's dam by *n own brother to Highland Hartog De Kol with a yearly record of 1247.95. This combination of breeding has produced many 1000 to 1200 cows. If prepotency counts, where can you equal it?

Priced \$100.00 for quick sale.

Hillcrest Farm. Mgr. F. B. Lay, Kalamazoo, Mich.

Holstein Friesian heifer and bull calves, purebred Registered and high-grade. Price \$20 up. Splendid individuals and breeding. Write us your equirements. Browner of Farms, McGraw, N. Y.

2 Heifer calvessire a 27 lb. son of Maple Crest Kerndyke Heng. Their dams have 19 lb. 2 yr old sister and a 27 lb. sire. Terms \$75. down \$50 a year.

N. L. McLAULIN, Redford, Mich.

FOR SALE Registered Holstein-Friesian bull calf ready for service extra choice breeding and individuality, King of the Pontiacs breeding. Henry S. Rohlfs, R.I. Akron. Mich.

For Sale \$450.00

A show bull from A. R. O. Dam born December 15, 1918, Sired by our Show Bull.

MODEL KING SEGIS GLISTA
Whose grand dam, GLISTA ERNESTINE, has six times made better than thirty pounds of butter.
Buy now in order to have 1921-22 winter calves.

CRAND RIVER STOCK FARMS
315.WESSAWS. CORV.J Sheeneer, Owner Jackson, Mich.

315 N. East Ave., Corey J. Spencer, Owner Jacks. Under State and Federal Supervision



C. W. Newman, Prop. Merryall Farms, Wyalusing, Pennsylvania, writes:

"Holstein cattle have been the real foundation for my fi-nancial success. From an original investment of \$75 in one purebred female I have in twelve years sold \$3,840 of stock, and have six valuable animals on hand."

Send for Free Booklets

The Holstein-Friesian Association of America 164 American Bldg., Brattleboro, Vermont

NOTICE

The Winwood Herd

on Nov. 1st will move their Herd of Pure Blood Holsteins to their new home, 1½ miles south of Rochester, Mich. and for the next 30 days we will sell what bull calves we have cheap as we will be unable to get our buildings comwill be unable to get our buildings com-plete before winter. So get busy if you want a son of Flint Maplecrest Boy at your own price.

JOHN H. WINN, (Inc.)

Roscommon,

Michigan

Reg. Holstein bull calf born Nov. 1920 extra choice breeding and individuality, \$60 reg. and del. J.R. Hicks, St.Johns.Mich.

Two Registered Holstein Bulls 12 and 15 mos. old. Nice straight individuals, from good dams \$100 each. J. M. EAGER, Howell, Mich

"Top Notch" Holsteins

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

Our herd is rich in the blood of Colantha 4ths Johanna, the only cow that ever held all world's records in every division from one day to one year at the same offering for sale a bull, whose dan. exceeds this record by over 7% lbs. in 7 days.

His dam's records are:

Milk 1 Day 659.3 lbs.

Milk 7 Days 659.3 lbs.

Butter 7 Lays 20.31 lbs.

His name is

His name is

KING VALE CORNUCOPIA WAYNE, No. 312599

Born February 6, 1920

His dam and sire's two nearest dams average
Butter 7 Days 33 02 lbs.

Milk 7 Days 607.3 lbs.

Handsomely marked about one third white.

\$250.00 f. o. b. Howell.

McPHERSON FARMS CO., Howe All herds under U. S. Supervision. Howell, Mich.

Cluny Stock Farm

Offers the best selection of young bulls from 8 to 12 months we ever raised; out of dams up to 29.76 for aged cows and over 26 lbs, for 2 yr. olds. Yearly records up to 24000 lbs milk and 1000 lbs, butter. Sired by our Senior Herd Sire, Maplecrest Application Pontiac, whose dam made 35 lbs. butter in 7 days and 1344 lbs. butter and 23421 lbs. milk in a year, or by Dutchland Konigen Sir Rag Apple, our Junior Herd sire, whose dam is a 30 lb. 10 yr. old maternal sister of Dutchland Colantha Denver who made 36 lbs. in 7 days and 1315 lbs, butter and 25431 lbs. milk in 1 year. Several carry the blood of both these sires.

They are extra well grown, straight and right. One

They are extra well grown, straight and right. One of these at the head of your herd is bound to increase Send for pedigrees and prices

R. Bruce McPherson, Howell. Mich.

Young Bull X L. Paul DeKol Maple Crest

Young Bull 3'3615 good individual 15 months

All 9 the breading both sides also bull calves 2 and 3 old 30 lbs, breeding both sides also bull calves 2 and 3 months; old Priced for quick sale.

RIVERVIEW FARM, R. 2, Vassar, Mich

HOLSTEIN BULLS 16 mos.old 30 lbs sire untested

FOR SALE A pair of bred heifers of Hood C. A. BRISTOL. Fenton, Mich.

\$75 buys a beautiful registered Holstein heifer calf six weeks old. Sired by a grandson of King Segis. No better breeding. B. B. Reavey. Akron, Mich.

HEREFORDS

Cows with calves at side, open or bred heifers of popular breeding for sale. Also bulls not related.

Allen Bros. Paw Paw, Mich.

616 So. Westnadge Ave., Michigan Kalamazoo, Herefords For Sale Fairfax and Disturber blood.
reduction on all sires, choice females for sale. Wite
me your needs. Earl C. McCarty, Bad Axe, Mich.

Hereford Bull 15 months old, choice breed-ing, a good one. First check for \$100 takes him, Registered, crated, f, o. b. this sta-tion. Fremont, Mich.

SHORTHORN SALE and SHOW

By Michigan Shorthorn Breeders' Association

Michigan Agricultural College EAST LANSING, MICHIGAN

FRIDAY, FEBRUARY 25, 1921 SALE 1 P. M.

SHOW 10 A. M. 44 Females

55 HEAD

11 Bulls

About 1 Scotch

About 1 Scotch Topped

Many of the Best Families Represented Every Animal Guaranteed Tuberculin Tested and sold subject to 60 days retest.

We believe this to be the best lot of Shorthorns ever offered by this Association. Several of Michigan's finest herds are represented, herds which have won many prizes in recent years at the International and other leading Shows. Many Shorthorns of the choicest Scotch breeding will be offered.

CONSIGNORS

C. H. Prescott & Sons, Tawas City, C. H. Prescott & Sons, Tawas City,
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IF YOU WANT

Shorthorns of Real Merit Come to Sale

PERCHERON and BELGIAN HORSE SALE 3 STALLIONS

Same Place, February 24th

Write for Catalogues Auctioneers: ADAMS & HUTTON

G. A. PRESCOTT, Jr., Pres., Tawas City, Mich.

W. E. J. EDWARDS, Manager, East Lansing, Mich.

Big Type Poland Chinas

Thursday, February 24, 1921 at Farm

40 HEAD BRED GILTS, TRIED SOWS 5 HERD BOAR PROSPECTS 5 TOP FALL GILTS

All Double Immune

Some Great Attractions

Trains will be met at Sturgis on N. Y. C. and Nottawa on G. R. & I., A. M. of sale. WRITE FOR CATALOG

E. J. MATHEWSON, Burr Oak, Mich.

IRA COTTINGHAM, Auctioneer W. M. KELLY, For the Michigan Farmer

Choice individuals; shipped to you c. o. d. express paid and guaranteed right or your money refunded. All stock registered in buyer's name.

J. CARL JEWETT.

Mason, Mich.

C. HOGS

all ages sired by Callaway Edd 1918 world's grand champ. boar and C. C. Schoolmaster 1919 world's grand champion also Wonder Big Type and Giant Buster. Write your wants, all stock shipped on approval. Cass City, Mich.

CRANDELL'S PRIZE HOGS,

Jersey Show bull born May 24th, 1820. Solid color, and very handsome. Sired by Oxford's Champion Fox 1888H out of Oxford Daisy's Princess, Register of Merit record 83H lbs. milk 468 lbs. butter with first calf, milked 50 lbs. per day with 2nd. calf. Sister to Nadles Crown Princess 18578 lbs milk, 1031 lbs. butter in one year. Dam of calf a first prize winner that produced 743 lbs. butter in one year. Priced very low quality considered, only \$75.00.

C. S. BASSETT, Kalamazoo, Mich

The Wildwood Farm Jersey Cattle, Majesty strain, Herd on State accredited list, R. of M. testing constantly done. Bulis for sale. ALVIN BALDEN. Phone 143-5. Capac. Mich.

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

JERSEY BULLS Ready for Service.
Raleigh-Oxford
and—Majesty breeding. Meadowland Farm, Water
man & Waterman, Packard Rd., Ann Arbor, Mich.

Lillie Farmstead Jerseys Bull calves from R. of M. cows. Coopersville, Mich.

Jersey Bulls from R. of M. dams \$75 to NOTTEN FARM, Grass Lake, Mich.

Jersey bulls for sale: From Marguerite's Premier a grandson of Pogis 99th and R. of M. dams. SMITH & PARKER, R. 4, Howell, Mich

Meridale Interested Owl No. 111311 heads my herd bull calves from this great sire and out of R, of M, dams for sale Leon E Laws, R. 6, Allegan, Mich.

Bloomdale Shorthorns

See our cattle get our prices and breeding before buy-ing. Both bulls and females for sale.

QARR BROS, & CO., Bad Axe, Mich.

SHORTHORNS

that will put weight on your dairy calves the difference will soon pay for the bull. Now selling good Scotch and Scotch topped yearlings, reasonably priced. We guarantee every animal to be a breeder. Federal Test. One hour from Toledo, Ohio, N. Y. C. R. R.

BIDWELL STOCK FARM, Tecumseh, Michigan

Stop! Look! Listen!

Have you a catalog of the Shorthorn Sale to be held at M. A. C. Feb. 25th at 1 P. M. We are listing four valuable females and two show bulls.

Richland Farms, C. H. Prescott & Sons, Tawas City, Mich.

Registered Shorthorns. Bulls and heifers.
G. R. Deshetler, R. 4. Tecumseh, Mich.

Milking Shorthorns, bulls and heifers 5 mo to 1 year old for sale at reduced prices to make room for younger stock. E. H. KURTZ, Mason, Mich.

The Maple's Shorthorns

Kirklevington Lad, by Imp. Hartford Welfare. In service, bulls for sale. J. V. WISE, Gobleville, Mich.

Branch County Farm

Polled Shorthorn Cattle Young Bulls For Sale

Several well bred herd bull prospects GEO. E. BURDICK, Mgr., Coldwater, Mich

VALLEY VIEW FARMS Choice young Shorthorn cows and helfers for sale, at all times, bred or open, or a carload, also a few young bulls strong in Sultan Blood. Write S. H. PANGBORN & SON, __ Bad Axe, Mich.

M EADOW Hills Shorthorns, Herd headed by Sil-duc University's great sire. For sale females of all ages, a few young bulls. Geo. D. Doster, Doster, Mich.

Central Michigan Shorthorn Breeders Association offer for sale 75 head; Both milk and beef breeding, all ages. New list ready Jan. 16. Mr. E. MILLER, Sec., Greenville, Mich.

Milking Shorthorns. Bull calves \$100 00 each.

Rederal accredited Herds. Davidson and Hall, Beland and Beland, Tecumseh, Mich.

Reg. Red Polled cattle choice young buils from 6 to 18 FRANK KEBLER, B.1, Grand Ledge, Mich.

Peg. Red Polled bull calves, from 3 mos. to 1 year bold, sired by Famous Charmer. 75% same blood as Charmer 1919 International GrandChampion, Our head State and Federal tested. Westbrook Bros., Ionia, Mich

Registered Berkshires, Gilts, and Sows bred for April May and June farrow. A yearling Boar and a few younger. Spring pigs. Chase Stock Farm, Marlette, Mich.

Registered Berkshires for sale. Two young boars, and younger ones of either sex Let me know you wants. JOHN YOUNG, R. 2, Breckenridge, Mich.

DUROC JERSEY SWINE

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

DUROC JERSEYS
Bred gilts, service boars and fall boar pigs at Bargain prices. Your correspondence or personal inspection is cordially invited.
RUSH BRCS. Oakwood Farm. Romeo, Mich.

Michigana Durocs Bred gilts and sows for sale at private treaty. Also bred sow sale February 21st. S tisfaction. guaranteed. O. f. FOSTER, Mgr., Pavilion. Mich.

Duroc sows and gilts bred to Walts King 29499
at the State Fair in last 2 years than any other Duroc boar. Everyone will be a money maker for the buyer. Cat. and price list.

NEWTON BARNHART. St. Johns, Mich.

Durot Jersey boars from 8 mo. to 1 yr. old. Select type Prices reasonable. shipped on approval and guaranteed right. W. E. BARTLEY, Alma, Mich.

Duroc bred sows and gilts for March and April far row, at prices you can afford to pay. Write W. C. TAYLOR, Milan, Mich.



Spring pigs by Walt's Orion, First Sr. Yearling Detroit, Jackson, Gd. Rapids and Saginaw 1919 Phillips Bros, Riga, Mich.

DUROC SALE CIRCUIT

The following well known breeders will sell good registered Duroc Bred Sows on the following dates:

Monday, February 21, 1921 Michigana Farm Ltd., at Pavilion, Mich.

Tuesday, February 22, 1921 Chaslen Farm, at Northville, Mich.

Wednesday, Febr'y 23, 1921 Thos. Underhill & Son, at Salem, Mich.

Thursday, February 24, 1921 Newton Barnhart, at St. Johns, Mich.

These sales will be held regardless of weather Write to the several breeders for catalogues

Following men will handle mail bids. Send bids to them at respective sales in owner's care:

Col. R. M. Clark, Brimfield, Ill., Auctioneer

Joe Havga, Peoria, Illinois Ass't Sec'y National Duroc Jersey Br. Ass'n

W. M. Kelly For The Michigan Farmer

Sales will Start at 1 o'clock in the Afternoon

Fellow Breeders: Farm

This is our 9th bred sow sale, but the first one in Michigan and we brought with us the leading Duroc families of the west.

We believe in this offering we have some sows that will help to improve any pure bred herd, they are mostly Colonel breeding mixed with Giant, Colonel High Model, Sensation, Gold Model Defender and mixed with the top breeds here such as Panama Special 4th and Michigana Demonstrater, as last season we purchased the top sows at any sale we attended and we want to say there is some real show sows in this offering.

Any, how we will be glad to see you here on Feb. 22nd if nothing more than to make your acquaintance. Northville is 25 miles from Detroit on the D. U. R. and P. M. R. R. the farm is 3 miles from Northville. Autos will meet all trains on both roads; if you get here the night before go to Ambler House as our guest.

All hogs are double immune from Cholera.

CHASLEN FARMS

C. H. & L. A. YOUNG, Prop. Colonel M. R. Clark, Auctioneer.

At 1:00 P. M.

Stock Judging Pavilion, Michigan Agricultural College

Registered Percheron and Belgian MARES 3 STALLIONS 3 A Few Good Grade Work Horses

Under the Aupices of Michigan Horse Breeders' Association

For Sale List, Write R. S. Hudson, Secretary-Treasurer Shorthorn Sale February 25, 1921 Same Place

DUROC JERSEYS Carey U. Edmonds, Hastings, Mich.

sey boars ready for service. W. H. MAYES, L. B. 505, Durand, Mich.

Combination Dispersion Sale

40--Reg. Holsteins--40

Wednesday, March 2, 1921, at Perry, Mich.

Complete dispersion of the Spalding herd, with consignments by B. E. Smith and H. O. Loomis.

These herds are headed by

SIR VEEMAN HENGERVELD TRICKSEY

a son of Sir Veeman Hengerveld, from a 28.5 lb. Junior 2-year-old daughter of King Korndyke Sadie Vale, and

MAPLECREST BANOSTINE APPLICATION

a son of Friend Hengerveld DeKol Butter Boy, out of the highest record daughter of Pontiac Aaggie Korndyke.

Several cows with A. R. O. records, including a 26.5-lb. cow, and a 22.6-lb. Junior 4-year-old, and a 20-lb. grand-daughter of Pontiac Apollo.

The Spalding and Smith herds have each passed a clean test under supervision.

Sold with 60-90 day retest privilege.

Write for Catalogue to

MICHIGAN HOLSTEIN-FRIESIAN ASSOCIATION

H. W. Norton, Jr., Secretary, Old State Block, Lansing, Michigan.

JERSEY CATTLE **AUCTIO**

Wednesday, February 23, 1921

30 well bred registered and grade Jersey cows giving milk, 6 Jersey heifers and 12 heifer calves and 12 heifers recently bred.

These heifers and calves are daughters of Gold Medal Noble 164784, whose dam has won 12 A. A. C. C. Medals. This good sire and one of his sons, one year old, are included in the sale.

Full dairy equipment, farm implements and tools listed in sale.

Nine head of horses, draft mares, work teams and colts. Fifteen Chester White hogs. Large quantity of feed. B. L. K. Milker with piping and power complete.
Sale will be held at the C. E. & M. B. Covell farm at Montague, Muskegon
County at 10 o'clock sharp, Wednesday, February 23, 1921.

E.B. MEYERS, Prop. Montague, Mich.

Sheep Auction 550 Breeding Ewes Sale Wednesday, February 23rd

At One o'clock Fast Time

At South Rockwood, Mich.

All are in good condition from one to four years old. About 100 of these are Delaine and Ramboulette types. Balance mostly black face, most of them are due to lamb in March and April from Shropshire Rams.

ALMOND B. CHAPMAN, Prop.

South Kockwood, Mich.

Farm located (by auto) on Dixie Highway two miles south of Rockwood or 22 miles south between the Burnel By street car three quarters of a mile south of Crooks Road.

HOLSTEIN CATTLE SALE

Wednesday, February 23. ½ mile south of Ovid. Having sold my farm will sell 7 highly bred registered females, tubercular tested, 2 cows daughters of A. R. O. dams, with other farm stock and implements. E. C. SMITH.

Ovid, Mich.

40 Head. Duroc Jersey Bred Sow Sale March 5th. Auto's in waiting at Park Hotel, Monroc, also at National Hotel, Dundee, be our guest sale day. F. J. Drodt, Monroe, Mich.

Boy No. 93964, a winner in seven shows. Young sow pigs, weight about 100 lbs. Boars. Special prices on all February sales. Lone Elm Farm.
EARLE R. MORRISH, R. 6, Flint, Mich. DUROC JERSEYS Boars and gilts by Mich. Path-finder. E. D. HEYDENBERK, Wayland, Mich. Write Me at once I have just what you want heavy bone registered Duroc Jer-

Special prices in Durces. Heavy bone, best of breeding and type. Bred gilts, yr sow and fall pigs, Both sex. A. W. HOWE, Mason, Mich.

Additional Stock Ads on Page 253



GRAIN QUOTATIONS

February 15, 1921.

Wheat.

Corn

Detroit.—Cash No. 3 yellow 73c; No. yellow 70c. Chicago.—No.

3 mixed 65@66½c;

Oats.

Detroit.—Cash No. 2 white 50c; No. 3 white 48½c; No. 4 white 45½c.

Chicago.—No. 3 white 43¼ @ 45c; No. 4 white 41¾ @ 43c.

New York .- Market is dull. Choice pea, new \$5.10; do medium at \$5.50@ 5.75; red kidney \$9.25@9.50 per cwt.

Rye. Detroit.—Cash No. 2 rye \$1.60.

Seeds.

Detroit.—Prime red clover \$11.25; alsike \$16; timothy \$3.10 per bushel.
Toledo.—Prime red clover, cash and February \$11.10; alsike \$15.50; timothy \$2.95 per bushel.

\$18\tilde{0}19; No. 1 clover mixed and No. 1 clover \$17\tilde{0}18; rye straw \$12\tilde{0}13; wheat and oat straw \$11\tilde{0}12 per ton

crease in demand from milling centers. The decline also checked receipts, although the total holds above that of a year ago. The visible supply declined again, the total now standing at 32, 250,000 bushels, a decrease of one-third since December 11, and only about onehalf the average at this season of the year. As a result of the freight rate increase, smaller interior mills have been buying wheat direct from farmers at relatively low prices and supplying local flour requirements at prices lowe below those on shipments from the big Best milling centers. This has resulted in the disappearance of the wheat without its showing up in regular trade channels and has also contributed to the slack demand for flour from the

ing it. The next two months will tell the story as the demand subsides rapidly after April 10 or 15. The average a heavier movement in a week to ten ter on February 11 as reported by the price paid to producers during a period of years has been highest during April, according to the Department of Agriculture. Whether this will hold true this year depends on the size of the pow being related indicate a reductive to the continuous for fresh butter is expected to continuous. Wholesale prices on 92-score butter is expected to continuous time. Wholesale prices on 92-score butter on February 11 as reported by the Bureau of Markets were as follows: quantities are being fed to live stock Chicago 44c; New York 44c; Boston in certain sections, and early reports 4c; Philadelphia 45c. Detroit.—Cash No. 2 red \$1.96; May \$1.89; No. 2 white and No. 2 mixed \$1.94.
Chicago.—No. 2 red \$2.01; No. 3 hard \$1.79@1.80½; March \$1.75.

The part to producers during a period of years has been highest during April, according to the Department of Agriculture. Whether this will hold true this year depends on the size of the spring demand and the anxiety of producers to dispose of their rather large holdings. holdings.

Feedstuffs continued to decline during the past week, bran falling below one cent per pound wholesale in value both at Minneapolis and Kansas City. Detroit.—Cash No. 2 white 50c; No. white 48½c; No. 4 white 45½c. Chicago.—No. 3 white 43¼ @ 45c; No. white 41¾ @ 43c.

Beans.

Detroit.—Immediate and prompt are in the grain markets it appears unlikely that prices will see much lower price than seemed possible a few months ago, and in view of the firmness developing in the grain markets it appears unlikely that prices will see much lower price than seemed possible a few months ago, and in view of the firmness developing in the grain markets it appears unlikely that prices will see much lower price than seemed possible a few months ago, and in view of the firmness developing in the grain markets it appears unlikely that this prices are the second possible and thin the grain will be a short also reached \$19 a ton whole sale. This is a much lower price than seemed possible a few months ago, and in view of the firmness developing in the grain markets it appears unlikely that this prices are the second possible and the second poss dull at \$3.90 per cwt.

Chicago.—White beans steady. Handpicked beans choice to fancy \$4.50@
heavy.

Light production at the larger
though stocks are comparatively
heavy.

Light production at the larger
through stocks are comparatively
heavy.

Light production at the larger
through stocks are comparatively
heavy. interior mills.

product feeds in the same market een roosters 22c; ducks ters. Stocks in producers' hands are @24c; turkeys 43c. large, and the season of heavy consumption is rapidly passing.

Detroit.—Eggs, f 34c. Live poultry,

BEANS

Hay.

No. 1 timothy \$20@21; standard and another setback during the past week, light mixed \$19@20; No. 2 timothy \$18@19; No. 1 clover mixed and No. 1 tive manipulation. Although the crop clover \$17@18; rye straw \$12@13; is light, stocks are moving into constitution.

on the acreage in the extreme south now being planted indicate a reduction of 30 to 75 per cent in various counties. Prices are as follows: Chicago.—Round whites U. S. Grade No. 1 sacked \$1.15@1.25; bulk \$1.20@1.35 per 100 lbs. Pittsburgh.—Michigan round whites U. S. Grade No. 1 \$1.95@2 per 150-lb. sack. Detroit.—Michigan whites \$2@2.25 per 100-lb sack.

EGGS AND POULTRY

After a precipitate decline of almost fifty per cent in value, egg markets scored a moderate reaction at the close of the past week. Production has been favored by weather conditions in practically all sections. There is no prospect of any big advance, even though accumulations are not large, and advances will be of only temporary duration. Poultry prices are showing a seasonal tendency to advance. I stoot The hay markets continue relatively weak although prices for the better duotations were as follows: Chicago. He was although prices for the better duotations were as follows: Chicago. He was although prices for the better duotations were as follows: Chicago. He was decirated as a decirate with the same was decirated as the same market as a continuous duotation. Poultry prices are showing a seasonal tendency to advance. Latest quotations were as follows: Chicago. He was decirated as a decirate was decirated as a decirated as de Eggs, fresh firsts 36@36½c; ordinary firsts 33@35c. Poultry, spring chickens 30c; hens, general run 31c; roosters 22c; ducks 28@35c; geese 22

Detroit.—Eggs, fresh candled 30@ 34c. Live poultry, spring chickens 29@ 30c; Leghorns 25; heavy hens 32@ 33c; light hens 30@31c; roosters 20c; geese 27@28c; ducks 35c; turkeys 40@ 42c

BUTTER

CHEESE

Weakness in butter and egg markets caused some loss of confidence on the part of cheese handlers early in the week, but with the turn for the better in those two commodities a firmer trade developed. The volume of transtrade developed. The volume of transactions was comparatively large. The eastern markets behaved in a manner similar to Chicago. Receipts declined over 25 per cent at the four markets the biggest change occurring at New York

CABBAGE

Cabbage shipments were lighter dur-ing the past week and prices hardened on old stock but new stock remained

DETROIT CITY MARKET

Supplies are light and movement slow. Apples bring 75c@\$3 according to quality; cabbage 60@85c; onions 75 @80c; parsnips 60@75c; potatoes 70@75c; turnips \$1@1.75 per bu; eggs 45@60c per dozen; poultry 32@40c lb; hogs 13@15c; veal 18@19c. These prices represent sales in wholesale

STATE FARM BUREAU MARKET REPORT.

The market on coarse grains shows considerable improvement. During the past week there has been a sharp advance of about ten cents on wheat and other grains. Millers are buying more freely and the general market undertone is very strong due to expert slight mixed \$19@20; No. 2 timothy \$18@9; No. 1 clover mixed and No. 1 clover straw \$12@13; wheat and oat straw \$11@12 per ton in carlots at Detroit.

WHEAT

Immediately after the extreme weakness in the wheat market during the first week in February, marked strength developed which has dominated the behavior of all grain prices during the past week. The advance in wheat amounted to around twenty cents per bushel and was due to fresh export sales, to purchases made by exporters to fill old export sales, to purchases made by exporters to fill old export sales, to purchases made by exporters to fill old export sales for advance delivery and to a moderate increase in demand from milling centers. The decline also checked receipts, also are strawn of the straw of the considerable improvement. During the considerable improvement. During the past week are moving into consumptive channels much more slowly butter markets staged a sharp panicky butter markets staged a sharp panicky butter markets staged a sharp and panicky butter markets staged a sharp and panicky butter market staged a sharp and recovery toward the close of the past week. Foreign competition and an interest on wheat and panicky butter market staged a sharp and recovery toward the close of the past week. Foreign competition and an interest on the stage of about the crose of about the close of the past week. Foreign competition and an interest on the stage of about the close of the past week. Foreign competition and an interest on wheat and other crose of about the close of the past week. Foreign competition and an interest on wheat and other panicky butter market staged a sharp and the close of the past week. Foreign competition and an interest on wheat and other panicky butter market staged a sharp and the fact seed department and large quantities are still on the farms.

NEWS OF THE WEEK.

(Continued from page 216).
ment will determine the strength of
the Lloyd-George administration.—The
Mongolian city of Urga is reported to
have been captured by a force of Russians and Mongols.—Research work at
Harvard University has made it possible to secure Versys of much greater ble to secure X-rays of much greater penetrating power than have ever be-fore been obtained in this country.— Envoys of Soviet Russia present their credentials to Mexican communists.

Tuesday, February 15.

Live Stock Market Service

Markets for February 16.

DETROIT

Cattle.

Market opened steady; prospects are

lowel.		
Best heavy steers\$	7.25@	8.0
Mixed steers and heifers	6.75@	7.7
Best handy wt bu steers	6.250	7.2
Handy light butchers	5.25@	6.2
Light butchers	4.75 W	5.
Best cows	5.25@	6.0
Butcher cows	4.25@	4.7
Common cows	3.25@	3.7
Canners	2.50@	3.2
Choice bulls	5.75@	6.0
Bologna bulls	5.00@	
Stock bulls	4.25@	4.7
Feeders	6.50@	7.0
Stockers	5.00@	6.0
Milkers and springers\$	50@	
Veal Calves.		

ing is under way in Texas, Oklahoma and southwestern Kansas, and as far north as southern Kentucky. The season is a week or ten days ahead of normal.

SEEDS

Spring demand for clover seed is not yet of large proportions and the trend of the market is uncertain while await-

light lights 130 to 150 lbs common, medium, good and choice at \$9.65@10.20; heavy packing sows 250 lbs up smooth \$7.85@8.75; packing sows 200 lbs up rough \$7.50@7.85; pigs 130 lbs down medium, good and choice \$9@10.10.

Cattle.

Estimated receipts today are 6,000.

Market strong to 25c higher; calves weak. Beef steers medium and heavy best its showing up in regular trade channels and has also contributed to the slack demand for four from the larger mills.

CORN

Low prices to producers have checked sales of corn and to some extent of continued to decline during the past countributed to decline during the past week to a point below that of last year when car shortages and the railroad strikes were factors in transportation. Cash corn has developed greater strength as a result, notwithstanding a supply of the strength as a result, notwithstanding and the total is now 20,385,690 bushels. It is has practically doubled within two bushels over the preceding week, and the total is now 20,385,690 bushels. It is has practically doubled within two weeks. Export demand remains comparatively slow even though prices are below those of Argentine Federal Control of the common and muddy roads and the higher value for feeding to hops on the other.

OATS

Oats continue to follow corn. Planting is under way in Texas, Oklahoma and southers feeding to hops on the other.

OATS

Oats continue to follow corn. Planting is under way in Texas, Oklahoma and southers feeding to hops on the other.

CHICAGO

CHICAGO

SEEDS

Spring demand for clover seed is not yet of large proportions and the trained of the market is uncertain while await-of the





To neglect any discomfort of the udder or teats is costly. The

costly. The slightest oreness or abnormal condition makes the cow restless and reduces the flow of milk.

Cuts, Chaps, Scratches, any congestion or inflammation can be quickly cleared up by using Bag Balm, the great healing ointment for cows. Caked Bag is promptly reduced by this softening remedy. A great aid in treating Bunches and Cow Pox.

Bag Balm. in the liberal 65c package, is inexpensive insurance against sericus troubles. Keep a package on hand. Sold by general stores feed dralers and drug-gists. Booklet, "Dairy Wrinkles." Free. DAIRY ASSOCIATION CO.

Lyndonville, Vt.

MADE BY THE KOW Mr. POULTRY FARMER:

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

GEO. R. ELDRIDGE CO.
2652-2656. 18th Street, Detroit, Mich.
Remember! We guarantee you satisfaction with every shipment

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

HAY Apples, Potatoes Wanted Highest The prices paid. The E. L. RICHMOND CO., Detroit, Mchi



BLU-BAR HOG AND CHICK FEEDERS

Hog Houses, Hog and Chick Waterers. 'Colony Brooder Stoves. Write for circular and prices.

THE BLU-BAR MFG. CO.,
Dept. B, SYCAMORE, O.

NEW CROP TABLE RICE AND SPANISH PEANUTS

100 pounds in double sacks, freight collect. Beautiful whole long grain white rice \$5.00. Choice recleaned peanuts \$5.50. Guaranteed to reach you in good condi-tion. J. ED. CABANISS. Box 162, Katy, Texas

For Sale -- Frost Proof Cabbage Plants Early Jersey Wakefield, Charleston Wakefield, Succession and Flat Dutch, at \$1.50 per 1000 express collect, Parcel post paid, 100 at 35c; 500 at \$1.50; 1,000 for \$2.25.

PEDIGREE SEED OATS

Wolverine and College Success seed oats for prices. Apply THE JENNINGS FARMS, Bailey, Mich.

Mammoth Cloverseed fine quality, 1920 crop, home grown. Recleaned and graied. Samples \$12.00 bu. bags free, F. A. Follett, Fremont, Ind.

For Sa'e Write Dr. W. Austin Ewalt, Mt. Clemens Mich., for those beautifully marked Sable and White Scotch Collie Puppies; natural heeler from trained stock, pedigrees furnished. Will also but thoroughbred Collie and Airedale puppies for training

FARM HELP

Farmer Wanted

Experienced farmer to operate a modern farm near Belleville. A man not afraid of work who knows general farmins. Wife must be good housekeeper. Profess mall children. When writing state size of family, age, wages expected and experience during, past six years. Milking done by machine. Cash salary monthly. Do not answer unless you are a farmer and wish permanent position. Address replies to O. H. Kiskadden, 46 Davenport Ave. Detroit, Mich.

Wanted Married Man to work farm on shares—200 acres near Davisburg, Oakland Co. Good land and buildings.
P. S. WRIGHT. 229 Gratiot Ave., Detroit, Mich.

Man With Family to operate well stocked farm on shares in Oakland County. Address Box B. 219 care of Michigan Farmer, Detroit. Mich.

Young farmer, with wife and two children, wants to work on farm in south Mich. Write JOHN DAVIDSON, R. 1, Elberta, Mich.

HOGS

Brookwater Duroc Jerseys

BOARS—Ready for Service **Bred Sows and Gilts**

Write us for Prices and Pedigrees Mail orders a Specialty. Satisfaction guarant BROOKWATER FARM, H. W. Mumford, Owner J. B. Andrews, Mgr.

DUROC SOWS and gilts bred to Jacks Oherry Orion King No. 189229 Som of the \$10,000 boar owned by Longview Farm. Le Sumit. Mo. also young boars ready for service out of good sows. Apply THE JENNINGS FARM, Balley, Mich. here in Michigan.

WOOL

No important developments have occurred in wool markets during the past week. Sales in this country are moderate in volume but American buymoderate in volume but American buy-ers continue to operate in British and Australian markets, most of which re-port prices as firm. Last week arriv-als of foreign wool were very large, probably representing the van of pur-chases made last fall. Changes in the woolen mill situation are slight but all appear to be for the better. The deappear to be for the better. The demand for wool centers upon the fine and fine medium grades which are not abundant. Australian markets were and fine medium grades which are not abundant. Australian markets were quoted at \$1.15@1.20 clean landed at Boston for choice 60-70's, counting sterling exchange at \$3.85. Some Illinois wool of three-eighths and quarter-blood grade was reported sold at 26@27e, Michigan combing quarter-blood at 26c, and some Ohio fine delaine at 40@41c, or around \$1 on the clean basis. Boston quotes prices as follows; Ohio and Pennsylvania fleeces, delaine unwashed 40@41c; fine unwashed 30@31½e; half-blood combing 33@35c; three-eighths-blood combing 33@35c; three-eighths-blood combing 30@31c.

Michigan and New York fleeces, delaine unwashed 39@40c; fine unwashed 32@34c; three-eighths blood unwashed 32@34c; three-eighths blood unwashed 29@30c.

LIGHT RUN HELPS CATTLE.

A SHARP reaction in the cattle market was due almost solely to a decline of about twenty per cent in receipts at leading market centers. The dressed beef markets continued on the easy side, although price reductions were not marked. The inception of the Lenten period was partly responsible and this factor in meat demand will continue during the next five or six weeks. Recovery was most marked on the better grades of steers, which advanced seventy-five cents to one dollar at Chicago. There was apparent a slight disposition to hold back unfinished kinds which have flooded the markets for nearly two months, a change which suggests that we are now entering the period when the remaining cattle are in stronger hands, and the market will display greater resiliency. If conception of numbers of cattle on feed should prove to be erroneous, and another avalanche, or even a moderately heavy run arrive, weakness will quickly develop as the dressed beef trade is in no condition to absorb a big supply. All the signs justify the counsel to hold back unfinished steers for another fifty to sixty days. Cows and heifers advanced along ished steers for another fifty to sixty days. Cows and heifers advanced along days. Cows and heirers advanced along with steers, the better grades showing the most strength. Canners and cutters and bulls were not helped by the advance in the other classes. Veal calves scored a fractional advance in spite of the weakness in the dressed market. This division has two or three weekles of grace before the spring runs. weeks of grace before the spring runs from dairy districts.

SOUTHWEST MICHIGAN HOLSTEIN BREEDERS' MEETING.

THE annual meeting of the Southwest Michigan Holstein Breeders' Association was held at the City Club at Niles, Michigan, January 27. The program took the form of a general discussion of plans for furthering the best interests of Holstein breeders and the Black-and-White cow in Southwestern Michigan, Secretary Norton, of the ern Michigan. Secretary Norton, of the state organization, offered a number of suggestions and outlined a plan of consuggestions and outlined a plan of con-structive work for the coming year, which was adopted by the members. An entirely new board of officers was elected for 1921, as follows: President, Fred Green, Emmanuel Missionary College, Berrien Springs; vice-presi-dent, George Franz, Eau Claire; secre-tary treasurer. Chester Bull Dowagie.

dent, George Franz, Eau Claire; secretary-treasurer, Chester Ball, Dowagiac.
The executive committee to consist of the officers, together with S. A. Smith, of Emmanuel Missionary College, Berrien Springs; Walter Dillman, of Dowagiac, and D. H. Beeson, of Three Oaks. Among other things, the Three Oaks. Among other things, the secretary will keep an up-to-date list of animals offered at private sale by the members, and the state association office will be kept informed in regard to animals listed.

HE well-known Shorthorn breeders of Bad Axe, Michigan, Messrs, S. H. Pangborn & Son, report the recent sale of two splendid heifers and an outstanding herd sire prospect, sired by Perfection Heir 2nd, to Mr. M. Shupe, a well-known farmer of Elkton, Michigan. The three animals sold for \$3,000. These kind of sales help to strengthen the Shorthorn business



He ought to use SAVE-THE-HORSE too

Then he can cure while plowing.

A HORSE goes lame—that means no plowing today. Tomorrow c six day rain may set in.

That means "No plowing this week!" A smaller yield; a late crop; money lost and time wasted, by one lame horse. Don't take the chance.

A bottle of SAVE-THE-HORSE, the humane treatment for sore, lame and blemished horses, is the surest safeguard against these losses. It saves much because horse may work while being cured. SAVE-THE-HORSE cures—that's why we sell it with signed Guarantee to cure Ringbone, Thoropin, SPAVIN—or Shoulder, Knee, Ankle, Hoof or Tendon Disease or return money. Cures the so-called "incurables" without blistering or lost work.

BOOK Our FREE 96-page BOOK makes it possible for you to locate, understand, and treat all lameness, and our expert veterinary a dvice is yours, free for the asking, if you are not sure. Don't run the Risk of having horse laid up when you most need him. Use it once and you'll always depend FREE upon SAVE-THE-HORSE. Remember the GUARANTEE and let us take the risk for you. Write today for sample of this MONEY-BACK Guarantee, BOOK and advice—all FREE.

Binghamton, N. Y. 320 State Street TROY CHEMICAL CO. Druggists everywhere sell SAVE-THE-HORSE with Signed Guarantee, or we send tdirect by Parcel Post, Prepaid.

O. I. C's. One last fall boar wgt. 425, two last fall pigs either sex, good growthy stock % mile west of Depot. Citz's. Phone 124. Otto B. Schulze. Nashville, Mich.

O. I. C's Fall pigs by C.C. Big Callaway have size and quality and are priced right.
C. J. THOMPSON, Rockford, Mich.

O. I. C. Bred Gilts for Mar. and Apr farrow also a few choice service boars.
CLOVER LEAF STOCK FARM, Monroe, Mich O. I. C. Gilts bred for April and May Shipped C. O. D. H. W. MANN, Dansville, Mich.

O. I. O's choice bred gilts for April and May farrow, fall pigs either sex. Bookings orders for spring pigs.

A. J. BARKER & SON, Belmont, Mich.

We Are Offering at special low prices one of our choice of the control of the con



HAVE started thousands of breeders on the road to success. I can help you. I want to place one hog from my great by the started the success of the started representation of the started representation of the started representation of the started representation of write for my plan-"More Money from Hogs."

6. S. BENJAMIN, R. F. D. 10. Portland, Michigas.

For Sale O. I. C. Swine, Strictly Big Type with good boars and gilts left of same type and blood lines, that won for us at Ohio and Michigan State Fairs. Priced very cheap. Write us before you buy.

R. 1. MARLETTE, MICH.

Central Mich. O. I. C Swine Breeders Ass'n.

Hogs of all ages of popular blood lines. Every sale guaranteed by association.

DR. H. W. NOBLES, Coral, Mich. Sales Mgr.

Closing out sale of big type Poland Chinahogs, which represents the work of 25 years of constructive breeding. Everything goes; including our three great herd boars, "Mich. Buster" by "Giant Buster", "A Giant" "Butler's Big Bob." Two of the best yearling prospects in Michigan great length, big bone Come get your pick. Jno. C. Butler, Fortland, Mich

0.1.C's. Big Type Gilts, bred for Mar. and April farrow. Boars all ages. Write me for prices. G. P. ANDREWS, Mason, Mich.

gilts bred to Black Giant one of the best pigs out of Ill. this fall. Also a grandson of The Clansman and Harrison Big Bob. H. C. SWARTZ, Schoolexaft, Mich

Big Bob Masiodon Spring gilts bred for March and April and some sows bred to Big Bob his sire was champion of the world, his dam's sire was Grand Champion of Iowa State Fair. C. E. GARNANT, Eaton Rapids, Mich.

т. Р.

70 head of Poland Chinas at private sale. Am offering spring boars from 40 to \$50 and gilts the same price. Summer and fall pigs \$25 each. The first check will bring you the first choice. CLINE, Address F. T. Hart. St. Louis, Mich.

Francisco Farm Poland Chinas

Offering a dozen choice gilts and a few tried sown bred to such boars as Michigan Mastodon and Michigan Clausman. P. P. POPE, Mt. Pleasant, Mich.

BIG TYPE POLANDS

Bred gilts for sale. Also a few choice fall pigs by The Clansman and his son The Clansboy. They are great. Immune and registered. Come or write. WESLEY HILE, B. 6, Ionia, Mich.

LARGE Type Poland Chinas. A few choice fall boars for sale. Write or come and see them.
A. A. FELDKAMP, R. 2, Manchester, Mich.

Big Type Poland Chinas bargain \$75 buys a bred gilt and a 250 lb. spring boar also choice gilts bred for \$40. Guarantee Satisfaction.
DORUS HOVER, Akron, Mich.

Bg Type Poland Chinas at lowest prices. Both sows and gilts.
G. A. BAUMGARDNER, R. 2, Middleville, Mich

P.C. Bred sows. Fall pigs singly or in pairs. Also S. C. Minorca cockerels all big Type of the best of breeding. Satisfaction guar. R.W.Mills, Saline. Mich.

L. T. P. C. If you are looking for something good, in bred gilts at a right price. Write.
W. J. HAGELSHAW, Augusta, Mich.

POLAND China Bred Sows and Gilts at bargain prices, also spring boars and fall pigs, either sex. CLYDE FISHER, R. 3, St. Louis, Michigan

Leonard's Big Type P. C. Sows bred to orange Clansman, Fall boar pigs weigh 175 lbs. Real herd boar prospects. Call or write. E. R. Leonard, R. 3, St. Louis, Mich.

Registered Hampshire gilts now ready to ship. Spring boars and fall pigs at a bargain.
JOHN W. SNYDER, R. 4, St. Johns, Mich.

SHEEP.

Wool-Mutton Shropshire Rams. Good strong individuals, royally bred, priced right. A. H. FOSTER, Allegan, Mich.

Shropshires Choice ewes, all ages, bred to imported ram. Also a few rams W. B. McQUILLAN, R. 7, Howell, Mich.

Want a Sheep? Let American Hampshire Sheep booklet with list of breeders. Write COMFORT A. TYLER, 22 Woodland Ave. Detroit, Mich.

HORSES

Percheron
F.L. KING &SON

Stallions and mares at reasonable prices; inspection invited.
Chartlotte, Mich

Belgian Stallion for sale good breeder work.

W. B. STICKLE. Three Oaks, Mich.

Belgian Stallions for sale, Imported Chestnut sorrel, sorrel, age 3 sound. J. Blackman, Albion, Ind.

Good Clubbing Offers

OFFER No. 117.

The Michigan Farmer, one year..\$1.00 Swine World, one year 1.00 American Sheep Breeder, one year 1.50

Total value,\$3.50 All for \$2.50.

OFFER No. 120.

The Michigan Farmer, one year. \$1.00 Potato Magazine, one year..... 1.00 Poultry Success, one year..... 1.00

Total value\$3.00 All for \$2.15.

OFFER No. 121.

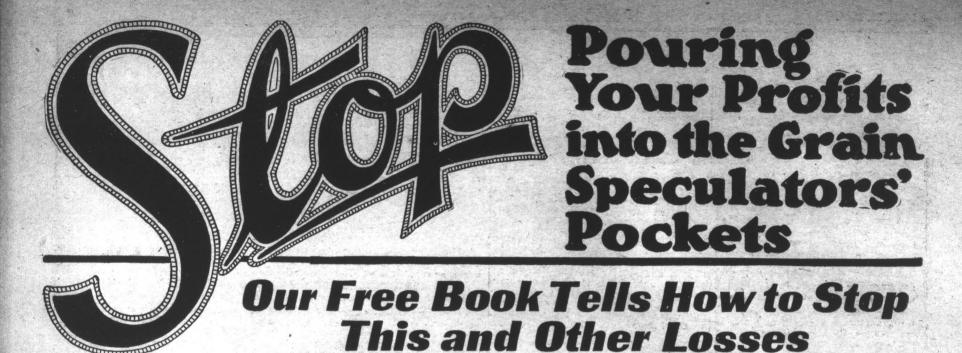
The Michigan Farmer, one year\$1.00 Modern Priscilla, one year 2.00 Tractor & Gas Eng. Review, 1 yr. 1.00

Total value\$4.00 All for \$2.95.

OFFER No. 122.

The Michigan Farmer, one year. .\$1.90 People's Home Journal, one year 1.25 Woman's Home Companion, 1 yr. 2.00

Total value\$4.25 All for \$3.40.



Mr. W. P. G. Harding, Governor of the Federal Reserve Board, says, "Dumping of Farm products on the market promotes speculation. I am a firm believer in the policy of gradual and orderly marketing." Every year corn and grain prices slump heavily after harvest because of this heavy seasonal selling.

Farm marketing experts say that spreading the selling season over a long period, would avoid these great fluctuations. This will stabilize prices and cut down the difference between the price the farmer receives and the price the consumer pays - in other words, it will cut out the speculators' profits.

Thousands of farmers today are obtaining all the profits from their crops by storing them over the heavy selling season. They get better prices than those who sell on a glutted market. Modern storage structures enable them to hold their crops without loss and give them absolute protection against rats, mice. fire and thieves.

E. H. Dunlap of Missouri made \$1250 in extra profits in 2 years by storing his corn and wheat in a Martin Crib and Bin. Here is what he writes:

"I held my 1918 crop of wheat in my Martin Crib and later sold it at an advance of 30 cents per bushel, after which I filled it with white corn and held it until the following Spring and sold it at an advance of 61½ cents per bushel.

"In 1919 I again held my wheat and made a profit of 35 cents per bushel over what I was offered at the machine, and later filled it with corn which I delivered at an advance of 40 cents per bushel. My extra profits in two years over the price at harvest time, were \$1250.00. This in addition to the big saving from rats, mice, mould, etc."

That's the way to beat low grain prices and market fluctuations -store your corn and grain this year in

Martin Cribs and Bins

Rat Proof-Fire Proof-Weather Proof Storage for Your Corn and Grain

and then you too, can sell whenever the market suits you. You will be safe in holding your crops for several months or longer if necessary. Your crops will be protected from rats, mice, fire, mould and even thieves. Martin Cribs not only pay for themselves in what they save but enable you to make greatly increased profits. Owners say they are the best investment they ever made.

They can be used for corn, wheat or oats, and every bushel you put in will come out in perfect condition. Being indestructible, they last a lifetime without any repairs, consequently, much better and cheaper than wood. Made in circular, oblong, and doubled-shed types from 100 to 10,000 bushels capacity. Easily erected, no special tools required. Patented construction, built of heavy corrugated, galvanized steel. A big and attractive addition to any farm.

Write Today for Our Big FREE Book It shows how the prices of crops are effected by manipulation and by other causes—it tells how you can put a Martin on your farm and make it pay for itself, by bringing you higher prices for your corn and grain, and by protecting your crops against any losses. There is a great deal of The Capacity of this Martin is 950 bushels of ear corn or 1560 bushels of wheat. important information for you in this book. We want every farm owner to have a copy. Just fill out the coupon with your name and address and we will send you this valuable book, free and postpaid. Get the facts—this book gives them. Dest Cup pigint cost Me Use the coupon now, mail it today. Cent MARTIN STEEL PRODUCTS CO 2514 Adams St. Mansfield Ohio (14) FREE BOOK COUPON MARTIN STEEL PRODUCTS CO., 2514 Adams St., Mansfield, Ohio Gentlemen: Please send me your big FREE book on Martin Steel "Corn Saver" Cribs and Bins. This does not obligate me in any way. Town..... I am interested in a Martin Crib and Bin holding aboutbushels of corn orbushels of grain.