VOL. CLVIII. No. 2 Whole Number 4183

DETROIT, MICH., SATURDAY, JANUARY 14, 1922

# Mr. Foster Finds His Farm

After Forty Years of Discouraging Results He Discovers that His Sandy Ingham County Farm Has Real Possibilities.

By M. M. McCool

FEW miles east of the village of A Okemos on the Grand River Road may be seen a neatly painted signboard which states, "One half mile yielded about ten to twenty bushels er on the test plots or general field to Foster Experimental Farm and Marl Beds." If one "follows the arrow" he will arrive at Pleasant Knoll Farm. It is owned by the Foster family, which consists of Mr. S. A. Foster, wife and no silo on the farm then, nor is there

Mr. Foster is one of the most en-Michigan. No meeting scheduled at able ones per acre. the Michigan Agricultural College es-

bushels. The corn crop was usually at the present time. The corn that trio on this land. was grown was fed from the shock to thusiastic readers of modern agricult he live stock. Potatoes produced tural practices that is to be found in about seventy-five bushels of market-

capes his notice. If there is a possi- 1903 to 1915 when something happenbility of it being of interest or value ed. About that time Mr. Foster began to him he calls up some of his friends to read and study along soil fertility and obtains inside information on it. lines. This was just prior to Farmers'

per acre and rye from ten to eighteen a perfect stand of clover and an excellent crop was obtained. This was the good because of manure from the cows first crop of clover that had been being placed on the land. There was grown in forty years. Marl, acid phosphate and manure proved to be a good

Foster Gets the Sweet Clover Bug.

He soon realized that his soil was almost depleted of vegetable matter by farming methods practiced for This general plan was followed from many years, the hillsides washed and gullies formed and the sand was migratory in its habits, that is to say, it did not remain in one position but was shifted about to a greater or less extent by the wind. Mr. Foster could see the result of these conditions so he started soil improvement by applying six yards of marl and two hundred pounds of acid phosphate per acre and seeding sweet clover in the 'small

out of the ground. The clover is turned under in May and three hundred pounds of acid phosphate are added per acre and potatoes planted. This completes one round of the rotation.

As stated previously, all vegetable matter produced on the farm is carefully saved and returned to the soil, the straw from two acres of the small grain being placed on one acre of land. The soil no longer washes or gullies and does not flow as a result of these treatments.

He is going to determine the benefits, if any, to be obtained from the use of potash. Judging from the nature of his soil and the system followed, as well as results obtained elsewhere in Michigan, potash should increase the yield of potatoes as well as

#### The Farm Lay-out Altered.

Owing to changes in his system of farming, Mr. Foster at once set about to alter the arrangement of his fields. grain. The entire crop of sweet clover There are no fences on the larger



Mr. Foster Now Grows Big Crops of Corn on Loamy Soil Built up through the Use of Marl and Acid Phosphate.

Moreover he travels extensively in or- Week at East Lansing during the winhe is not provincial, either in his living or thinking.

life, which I shall mention presently, Mr. Foster follows unusual methods of farming. He is an ardent believer of green manure crops, lime and fertilizers. He follows certain practices because he has found them to be both pleasant and profitable.

by the senior Foster. The farm is comacres, sixty of which are made up pounds per acre. chiefly of brownish loamy sand to the yellowish sand to the depth of several acres on muck land.

In talking over the situation with father practiced general farming. He

der to see that he may learn. He has ter of 1915. He attended the meetings visited the Illinois Experiment Sta- and came in contact with the owners tion fertility plots as well as others, of marl beds and heard talks on the seeking out information on methods liming of land and other subjects. The for soil improvement. In other words, evening of the first day he went home, shoveled the snow from a spot on his muck land and dug through the latter As a result of certain events in his into the grayish deposit, collected samples and brought them to the M. A. C. soils department, the following morning to have them tested. This was done in, and what is more important, a user for him and the samples were found to be a fairly good grade of marl. He also collected samples of soil from his farm which were tested and found to be sour or in need of lime, low in hu-This farm is more than eighty years mus, containing slightly more than one of age, having been previously owned per cent and deficient in phosphorus, carrying about four hundredths of one posed of one hundred and twenty-three per cent, or eight hundred and forty

One of the college professors being depth of eight inches and underlaid by more or less human, although this possibility is doubted by some, scouted a feet, and the remaining sixty-seven live wire and took up cooperative projects with Mr. Foster; arrangements were made for the project to be started Mr. Foster recently he stated that his in the spring. Strips of land across the fields were treated-some had raised corn, oats and rye. Twelve or marl, some marl and manure, some fifteen cows were milked and several muck and marl, some marl, manure head of sheep kept on the farm. When and acid phosphate and some had mahe took possession of the farm in 1903 nure, raw rock phosphate and lime. and for several years thereafter, oats Where mari was used on the land eith-



June Clover, Sweet Clover and Alfalfa Refuse to Grow on this Sandy Soil Until Lime is Applied. Clover Had Not Been Grown for More than Forty Years Previous to the Use of Marl.

which was good was turned under. tracts of land which are oblong in Straw, that was obtained from two shape and accessible. acres of small grain was applied to brought a net return of \$14 per acre.

A Three-year Rotation is Followed. The system being followed on this farm consists of small grain, oats with clover seeded early with two hundred pounds of sixteen per cent acid phosphate per acre. He has found that the sweet clover grows so large that by the time the oats are harvested they spoil in the bundle and he is obliged to seed either June or Mammoth clois followed by wheat, sweet clover being seeded as soon as the frost goes

Mr. Foster's marl bed is rather wet one acre of land. This latter practice during the rainy season and for some is still followed. Potatoes followed the time thereafter. So during the sumgreen manure crop and again two hun- mer he takes advantage of the rather dred and fifty pounds of the phosphate dry condition of the marl, removes a were applied. The first year the phos- sufficient amount of the material and phate was applied to the potatoes it places it in a heap to be distributed later on in the season at his leisure. He uses an ordinary manure spreader to scatter this marl on the land. He does not apply less than six cubic yards per acre and on one particular portion of the farm which is very light and extremely unproductive, he uses much larger quantities than this for the production of alfalfa.

#### Alfalfa Does Well.

I stated previously that clover had ver instead in the oats. The oat crop not been grown on this land for at least forty years, due to the fact that (Continued on page 37).



Published Weekly Established 1843 Copyright 1921

#### The Lawrence Publishing Co. Editors and Proprietors yette Boulevard Detroit, Michigan LaFayette Boulevard TELEPHONE CHERRY 8384 NEW YORK OFFICE-95 Madison Ave. CHICAGO OFFICE-111 W . Washington St. CLEVELAND OFFICE-101 1-1013 Oregon Ave., N. E PHILADELPHIA OFFICE- 261-263 South Third St.

I.R. WATERBURY
BURT WERMUTH
ALTA LAWSON LITTEL L
FRANK A. WILKEN

I. R. WATERBUR Y ..... Business Manager

TERMS OF SUBSCRIPTION 
 One Year, 52 issues
 \$1.00

 Three Years, 156 issues
 \$2.00

 Five Years, 260 issues
 \$8.00

 All
 Sent postpaid

 Canadian subscription
 50c a year extra for postage

cents per line agate ch (14 agate lines per ent inserted for less dectionable advertis ements inserted at any time. Member Standard Farm Papers Association and Audit Bureau of Circulation.

RATES OF ADVERTISING

Entered as Second Class Matter at the Post Office at Detroit, Michigan Under the Act of March 3, 1879 NUMBER TWO VOLUME CLVIII

DETROIT, JANUARY 14, 1922

#### CURRENT COMMENT

#### THE MICHIGAN FARMER SAYS:

Sloth has brought down more men and more nations than has the sword.

What is more common than animosities between parties who must cooperate to gain their own subsistence?

It is a sad commentary that so many people are so deeply concerned for the reputation of their wit while so few are anxious for their integrity.

No greater calamity can befall a neighborhood than a little gossip which, when grown rends the neighbors into two classes and makes these classes strangers to each other.

#### The Farmer's Taxes

JUST a few years ago many men who through industry and thrift found themselves in possession of a comfortable com-

petence to support them in their declining years, elected to spend those years in the country or the small country town and remain supporting factors in the community where they had spent their active life, rather than to move to some urban community and pay the much higher tax rate required to support the service demanded by the urban population. But this reason for this class of people remaining in their old home communities no longer exists. Country tax rates have not only jumped up to city levels but have in many instances passed them. The tax rate in some farm communities has mounted to four per cent of the assessed valuation, which has been raised to approximate the actual cash value of the property. In very many communities the rate is around three per cent of the assessed valuation. In the editor's home community it is just a fraction below this figure, due to the fact that "special taxes" have not been voted as freely as in some of the worse burdened farm communities.

As this is the inventory season, we may well take stock of what we are getting for this increased burden of taxation, which will average close to three times the normal pre-war burden. The one thing to which we can point in the writer's community is good roads. These we needed and appreciate. Although they cost too much, and for the most part are not yet paid for, condition of granting loans. This con-

cost. We authorized the expenditure with our votes and most of us are glad we have them, even at the cost of continued high taxes which will be required to pay the interest and principal on the construction bonds. In some communities there are improved schools which fall in the same class, although this is not the case in the writer's community, which is responsible for our comparatively "low" tax rate.

Outside of these local public improvements there have been no large operations of this kind carried on in the state or its minor municipalities, except the erection of a needed state office building. To offset this there has been less than the usual expansion of the plants of state educational, charitable and penal institutions. The expense of the conduct of all governmental activities has, of course, increased, at least proportionately, and in many cases out of all proportion to the increased expense of conducting ordinary business activities. And in the meantime the burden has been doubly increased by deflation, which the farmers of the state have felt more keenly than any other class of business men, if not any other class of

It is unreasonable to suppose that the farmers of the state can continue to carry this heavy burden of taxation under present conditions. It is not to the interest of the people of the state at large that they should. Normal business conditions cannot prevail in any other line until they are reestablished in the basic industry of agriculture, and there must be relief in this direction before they can obtain on the farms. There must be a material lowering in the cost of public service and a more equal division of its burdens. And these needed reforms must be brought about largely through the united action of the farmers of the state through the selection of representative men to act for them in legislative and administrative capacities. Such action will insure wise economy in the appropriation and expenditure of public monies, and a just distribution of the burdens of modern governmental activities. Nothing else will accomplish this result. Hence the desirability of present discussion and future action along this line. During the twelve months of 1922 you will have the opportunity to cooperate in the selection of officials to act for you in all state. county and township governmental affairs. The remedy for this situation, so far as it is capable of being remedied, lies in the hands of the voters of the state. They should take the initiative in the selection of the best men for these respective duties, men whom they are sure will act for their best interest, instead of blindly supporting this or that candidate who may aspire to public office. There are two classes of people interested in the question of taxation-those who pay the taxes and those who spend them. The former are in the great majority, and by united, public spirited action it is entirely possible for them to minimize the tax bill through insuring a greater degree of economy and efficiency in its expenditure.

#### Farmers' Banking Problems

IN the last issue we discussed the attibankers toward The War Finance Corporation plan of financing

agricultural loans in the present emergency. In this connection we took occasion to voice just criticism of the class of profiteer bankers who are exacting usurious interest from perfectly sound patrons through the subterfuge of bonus and discount demands as a we can pass them as being a public dition, which our investigation shows the investors live. Right now when And you and me is folks.

so burdened are to prosper and devel- there is more than the ordinary need op normally.

is not easy to prescribe under present the state, such a use of the funds conditions. This is the more true because this is a local, rather than a gen- investment during recent years would eral condition, hence the remedy must have been fortunate indeed. be a local one. There is also the question of a temporary expedient as compared with a permanent remedy to be considered, and the possible available local capital for the carrying out of any remedy which may appear feasible in any community.

The reader who is not confronted with this situation will ask why it is not possible to correct this situation by law. While this may be possible it is difficult, and perhaps the least feasible remedy which may be considered. The Michigan law at present fixes the legal rate of interest at seven per cent. Any higher rate is usurious under the present law, and any contract providing for a higher rate is void, hence the use of the subterfuges above enumerated as a means of collecting usurious interest in advance.

"But why," the reader may ask, "do the patrons of these profiteer bankers submit to this practice?" Simply begency use. In a previous comment we urged our readers to "Make a big noise about it" where such terms were demanded. Some of them have replied Mr. Editor, make a big noise about it if you were held up by a bandit with a gun?" And really, the individual farmer or the farmers' marketing organization confronted with this proposition is in little better situation. Their "Money Market" is confined to their own community. The outside banker owes his first obligation to his own community, and under present conditions has all or more than he can do to discharge it, without helping out the members of another community. Hence the remedy must be a local one.

Perhaps the best temporary remedy would be the organization of stock company loan associations which could qualify to secure funds through the War Finance Corporation. This is fine advice, but difficult to carry out, however, under present conditions, for the reason that liquid capital required for such an investment is not available in most communities needing the remedy. But in sections of the state where this: practice is at all general it may be possible for public spirited and well-to-do farmers and business men to finance such organizations on a scale which will afford a measure of relief. In cases where this can be done information as to the procedure can be secured by writing the War Finance Corporation, Washington, D. C.

Perhaps a still better scheme would business men of the community to make an issue of the proposition and This is often more easily possible than would appear on first thought. It is an essary one, and if applied and conduct-

tude of Michigan been many millions of dollars subscribno children of his own, of course. ed to the stocks of many and varied industrial concerns by the farmers of of agriculture and the business inci- motion. dent to it in the communities where necessity under present conditions and to prevail in some sections of the state, farmers' marketing enterprises need to

worth the exorbitant price which they demands a remedy, if the communities be more adequately financed and when for long-time and emergency credit by A practical remedy for this situation farmers in many if not all sections of which farmers have found available for

> Is it not, then, the part of wisdom to take a leaf from the book of our past experience and keep our investments largely in the communities in which we live, giving our own business first preference, local real estate loans the second, and financial institutions which will help develop our communities and make our own holdings more valuable at least third consideration. A broader community spirit is needed to this end. It will help to solve our banking problems, as well as our other business and social problems, to the great ultimate betterment of the farming business and farm life.

#### Jus' About Folks

FOLKS is interestin'. They's all so alike, still they ain't alike at all.

For inst. I know the fellow who is cause of their need of cash for emer-salesman for a horse medicine what thinks hisself the greatest salesman in the country. Now, he ain't said so right out hisself, but he's found defects and etc., about every salesman he by asking the question: "Would you, knows of in this country but hisself. An' he's perfectly willin' to say hisself that he is a salesman.

> And then they's fellows like Dan Mason what makes a big noise like General Disturbance, but who quick-



like changes his complexion when his wife says: "Dan, you go out and get me a hunk a wood or They say two." mice makes elephants a wfully scared.

Now there's Everett Smith what don't look like nobody and don't act like nobody, but you find he's a real fellow after you get acquainted with him, which ain't very

Maybe you know fellows like John .. Lang what is a perfect gentleman before ladies and other folks, but he talks terrible language to his automobile and other machinery just like they know what he is talkin' about. I ain't got no such educated machinery on my farm, 'cause I tried it.

Ezra Munson believes in plantin' his potatoes by the moon, but he says nobody can tell him times is going to get better after they can't get no worse.

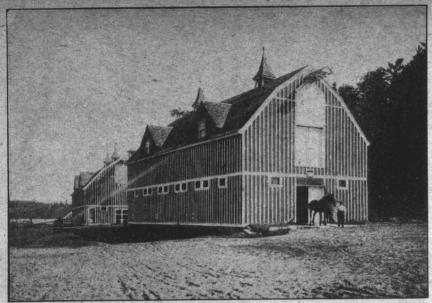
Heck Jimson is perfectly safe on be for the farmers and right thinking Sundays, being one or the supportin' posts of the church, but you got to watch yourself when horse tradin' with organize a new bank in the community. him from Monday A. M. to Saturday

I guess Sam Walker'd like to use uneconomic remedy, but may be a nec- candles like his grandfather, if his wife ed along conservative lines a practical provement except the financial condione. If provision is made for conservation of his pocketbook. He says the tive management there is no better or school he went to is perfectly all right safer investment for any man than in for the present generation, without such a financial institution in his own- new fixin's. Hisself is his shinein' excommunity where there is need of it. ample of schoolin' at the time when he Since the close of the war there have was gettin' birch-rodded. He ain't got

Now, I ain't said nothin' of women Michigan. Some of this money has folks, 'cause they's too profound a subprobably been wisely invested. Much ject for casual perusal. A friend of of it has not. But it is a safe state. mine who's got his fourth wife says ment that it would all have been much women is a hard book to read. My more wisely invested if it had been readin' experience of the subject with put into financial institutions which sister-in-laws, mother-in-laws, and would have aided in the development Sophie, makes me want to second the

Folks is queer people; ain't they?

HY SYCKLE.



A Barnyard Can be Kept Clean by Frequently Hauling Manure to Fields.

rienced the monotonous weeks of training in the queer French vilcan best appreciate the statement that a French peasant's wealth was often measured by the size and his particular location on a muddy alley or street. In fact, a current story claims that these imposing piles of manure almost spoiled the visit of a certain American officer returning to a good-sized village to see one Mademosielle Henriette. Due to the many crooked streets and alleys, the officer had used several colossal manure heaps as guide marks during several visits to see the French miss. But methods. just before this particular visit from the lines, the Americans had cleaned up the town. Consequently, in doughboy language, Lieutenant V was "out of luck" and wasted several precious hours in locating the object of his visit. The story may be pure fiction, but true it is that the peasants of Europe value their manure heaps quite may be the key to the scheme of imhighly—even if the brownish streams in the village streets did make many

MERICAN doughboys who expe- an American soldier wish he were back at the home fireside.

#### Value of Manure.

Barnyard manure is one of the most valuable by-products of the farm. However, its value can easily be and ordinumber of dung heaps which graced narily is greatly lessened by certain adverse conditions, improper treatments and modes of handling. The soils department of the agricultural experiment station at East Lansing, as well as similar stations of other states and countries have quite definitely determined the best means of handling manure in order to avoid losses and to get the best returns. The purpose of this article is to briefly consider such

The value of manure lies not only in the fertilizing elements which it may contain-materials for which the farmer pays large sums when he buys commercial fertilizer—but also in the large percentage of organic matter and the great mass of bacteria. On the lighter soil types especially, organic matter provement. The bacteria are of great value in that they are necessary for

# Barnyard Gossip

A Peasant's Wealth .- By A. H. Joel

scopic bits of life.

#### Manure Losses.

Carelessness and improper handling result in enormous losses, yet it is still no uncommon sight to see barnyards glutted with manure which has for months been exposed to the damaging action of rains, "fire-fanging," and the type of decay which spells the word loss in big letters. A farmer would not think of allowing a ton of commercial fertilizer to be washed by repeated rains-yet it is no small number who will day after day trample through the barnyard slop and give no thought to more economical, sanitary and efficient methods of handling the farm fer-

Leaching or washing out may cause the loss of large portions of the phosphoric acid and potash, especially the latter, while improper fermentation generally results in the loss of large quantities of ammonia, the highest priced ingredient of commercial fertilizer. All three losses can be cut to a minimum by either hauling the fertilizer direct to the field as it is made, or by properly storing it in covered pits with tight bottoms. In the latter case, moistening and compacting the manure prevents loss of ammonia by excluding any large amounts of air, and thereby setting up the kind of rotting or decay which does not set free this valuable fertilizing substance.

Poor stall floors and the lack of sufficient bedding of the right sort to act as absorbents, are common causes of loss of liquid manure, which contains even a larger per cent of nutrients than the solid. Any system which fails to take care of this is incomplete.

Under the adverse conditions of

decay and resultant beneficial effects. weathering and improper decay, just A few ounces of rotting manure may described, the loss may easily arise to easily contain a billion of these micro- fifty per cent of the nutrient constituents, and probably much higher with the ammonia and potash, which are most easily lost. Experiments and practical tests have shown that in six months' exposure, horse manure has lost as much as sixty per cent of its nitrogen, forty per cent of its phosphoric acid and seventy-six per cent of its potash. Converted to actual dollars, this loss might represent a very large sum on many farms.

"Fire-fanging," an apparent burning of manure is caused in dry, open heaps by the action of certain fungi. Manure thus attacked soon becomes of little value. Moistening and compacting, the remedies for improper fermentation, will also prevent this action.

#### Spreading of Manure.

It should no longer be necessary to caution farmers against placing manure in small piles in the field, to be scattered by hand later. Loss of ammonia and uneven distribution of plant food are the two main reasons. A manure spreader will pay for itself in a short time where there is any great amount of farm fertilizer to spread. Fineness, even spreading and saving of labor are but a few of its many advantages.

#### Reinforcement with Phosphate.

Manure contains a smaller portion of phosphoric acid than of potash or ammonia and is therefore an unbalanced fertilizer. The addition of rock or acid phosphate, at the rate of about forty pounds per ton of manure will greatly increase the effectiveness of manure. Conclusive results have been produced as to this point. The phosphate can be dusted over the manure spreader loads as they are hauled to

# Rural Agricultural Schools in Michigan

By T. E. Johnston

Supt. of Public Instruction

HE new rural agricultural school meets the needs of the rural community and great progress is being made in the organization of such

The rural agricultural act under which these schools are organized became operative in 1919. In 1921 it was amended, thereby becoming more workable and state aid was increased During 1919-1920 about twenty-five consolidations were formed, and since the opening of this school year nearly as effected. Since last spring no less than twelve communities in Oakland county have waged campaigns or are in the midst of a campaign for the establishment of rural agricultural schools. Seven of these have voted and consolidation carried in all but one of these communities. The other five proposed consolidation districts will

comb, Berrien, Newaygo, Muskegon, subject matter in the first eight grades. Wayne, Jackson, Dickinson, Luce, Iron, Marquette and Clinton.

insure classes of reasonable size and to make practical the employment of the necessary vocational and high school teachers. The natural community center should be chosen and it should include as much territory as possible without necessitating transportation routes that are too long. In many more organizations have been most communities an approximate area of six miles square should be the maximum, but of course this would depend upon the topography of the section.

Consolidation makes possible a higher degree of efficiency in all of the elementary grades from the first to the eighth inclusive. This is due to the fact that each teacher has fewer grades to teach, longer recitation pevote in the near future. This places riods, and is better qualified as a rule Oakland county in the lead as to the to teach the particular grades assigned number of organizations. Wexford and to her. She is chosen to do the line Genesee counties are in the lead as to of work that is most congenial to her the number of such schools in oper- and for which she is trained and adapted. The tenure of office of the teach-Among other counties that are ac- er in a consolidated school is much tive in the movement or have one or longer than in the average one-room more such schools are: Livingston, school. Positions in this type of school Shiawassee, Cass, Alcona, Charlevoix, are much more attractive to trained Oscoda, Ingham, Manistee, Kent, Me- and experienced teachers. The foregocosta, Montmorency, Van Buren, Ben- ing facts make it possible for more zie, Leelanau, Grand Traverse, Ma- through work and real teaching of the

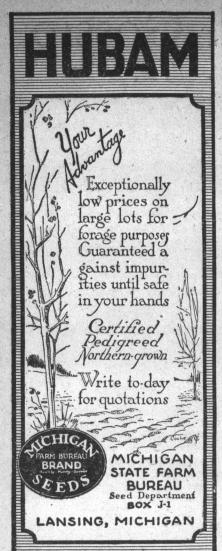
High school advantages are made possible for all of the boys and girls Two of the outstanding requirements of the community without the removal for a successful rural agricultural of the children from parental control. school are a large assessed valuation All who live more than one mile from

and a sufficient number of children to the school are transported along with the grade children and are at home each night. Subjects dealing with the basic industry of the community and of a vocational nature are included in the high school course. This insures a greater respect and appreciation of the home and community life on the part of the young people who have received such training. In the typical rural agricultural school the vocational work is growing in popularity. It is made educational and has a tendency to vitalize the work in arithmetic,

English and other allied subjects. In the work in manual training or farm carpentry, special attention is given to the proper care and use of tools. The articles made are such as may be utilized as a part of the school, home or farm equipment. The practical side of this work is well illustrated by the work of the boys in the Goodrich school of Genesee county. They built a motor bus body, which is being used in transporting pupils, installed shower baths in the schoolhouse, built seats, tables and blackboards, and turned out halltrees, tables, book troughs, laboratory cases and sewing tables. They built a re-(Continued on page 47).



Modern Rural Training Educates Toward the Farm, Not From It.







Never-Klog Saw Dust Blower Guaranteed five years. Write for circular. HILL-CURTIS CO., 1506 No. Pitcher St., Kalamazoo, Mich.

# Late Agricultural News

AGRICULTURAL CONFERENCE.

beginning Monday morning, January 23. It is expected that President Harding will open the conference.

FRUIT ASSOCIATIONS TO COOPER- troit, head of the Gleaners; and Lee S.

FRUIT growers of western and southwestern Michigan, including two ciations which are to be heard from. representatives from every cooperative fruit marketing organization in Michigan's fruit belt, will meet at Benton Harbor on January 19 at the call of the State Farm Bureau.

COW-TESTING ASSOCIATION FOR LIVINGSTON COUNTY.

L IVINGSTON county, And leading Holstein county of Ameri-IVINGSTON county, known as the ca, has just organized its first cow-testing association. Twenty-two of the seventy-six members in the new organization own pure-bred cows-a fact of considerable interest. All of the best known breeds are represented among the three hundred and eleven cows in the association.

F. S. Dunks, Livingston county agricultural agent, cooperating with Mr. Baltzer, dairy extension specialist from the college, was chiefly responsible for the forming of the new organization.

ERS' WEEK.

Whitney Watkins will represent the State Board of Agriculture and college THE national agricultural confers while H. H. Halladay will represent ence will be held in Washington, the State Department of Agriculture. A. B. Cook, of Owosso, Master of the State Grange; James Nicol, of South Haven, president of the Michigan State Farm Bureau; Grant Slocum, of De-Noble, of Oxford, president of the State Association of Farmers' Clubs are the leaders of the four agricultural asso-

> HOWARD MUMFORD TO COME TO MICHIGAN.

> PRESIDENT J. R. Howard, of the American Farm Bureau Federation, and Prof. H. W. Mumford, secretary of the Farmers' Live Stock Marketing Committee of Fifteen, head of the Live Stock Department of the Illinois Agricultural Association, and connected with the Animal Husbandry Department of the University of Illinois, have accepted the invitation of the Michigan State Farm Bureau to speak at the fourth annual meeting of the State Farm Bureau board of delegates at the Michigan Agricultural College on Feb-

#### HOLDS ANNUAL MEETING.

TUESDAY, January 24, the Development Bureau holds its annual FARM ORGANIZATIONS AND FARM- meeting at Bay City to elect officers for the ensuing year. Present plans are for the business meeting of the THE six leading agricultural associ- members Tuesday morning at the Bay ations and institutions of Michigan City Board of Commerce. In the afwill be represented on the Farmers' ternoon there will be an open meeting Week program at M. A. C. during the at the armory under the auspices of week of January 30-February 3. L. the State Department of Agriculture.

Wednesday, January 4.

I NDIA has been proclaimed a republic by the all-India national congress.—Twenty-five are dead and at least 200 suffering as a result of imbibing poisoned liquor in New York during the holiday time.—The republic of China alleges that France and Japan curb America in her eastern policy.-The State Industrial Commission of Colorado decides on a ten per cent cut

Thursday, January 5.

BOIES PENROSE, a prominent republican senator from Pennsylvanit, dies in Washington.-More than 200 persons were arrested in Chicago in a recent raid on rum drinkers.-There were 4,500 less marriages and 1,700 Genoa, Italy, in March. more divorces in Detroit in 1921 than in 1920.—Thirty U.S. Shipping Board steamers are to be made ready at once vice.

Friday, January 6.

A T a public New Year's reception President and Mrs. Harding shook hands with nearly -6,500 people.-Mr. Blanton, a democratic representative from Texas, introduces a bill to close the domestic and turkish bath house in the house of representatives which is for the free use of congressmen.

Saturday, January 7.

domestic and foreign mails.—It is re- land a free state, such as Canada is.

ported that Postmaster-General Will Hays has been offered the position of general director of the National Association of motion picture industry at a salary of \$150,000 a year.—The commissioner of accounts in New York recommends that the salary of public officials be materially increased to reare in a political military alliance to move the temptation of getting rich while in office.

Sunday, January 8.

Colorado decides on a ten per cent cut for packing house employes in that A T the meeting of the Michigan State Fair Association, the officers of the county fairs win their fight to continue horse racing and games of chance.—The French have accepted the United States submarine policy in the peace conference.—The United States will participate in the international economics meeting to be held at

Monday, January 9.

HENRY FORD is the first United States billionaire, according to his to be used in the Russian relief ser- own statement.-The court in Detroit decides that a baby cannot be held as a hostage for a board bill, which amounted to \$225.—A statue of Joan of Arc, given to the United States by the National Women's Society in France, was unveiled in Washington recently.

Tuesday, January 10.

THE \$250,000 Seventh Day Adventist Tabernacle at Battle Creek was destroyed by fire.-The Dail Eireann, the Irish parliament, ratifies the Brit- ${f B}^{
m Y}$  recent postal order narcotics of ish-Irish peace treaty by a vote of sixevery type are forbidden in both ty-seven to fifty-four. This makes Ire-

We pay more for raw furs than you can get from deal-ers. Why? Because we are manufacturers we buy furs to make them up into fur garments, so we can give you the extra profit that the dealer usually gets when he sells your skins to the manufacturer. Ship to us whatever skins you have much we will pay for them. If not satisfied with our price, tell us and we will gladly ship the skins back to you. Isn't that fair and square? Ship your furs today.

TOP-NOTCH PRICES

FUR

\$85 Fur Lined Ulster For \$35 Worth of Raw Furs

Special Introductory Offer to get new customers. If you would rather have a new overcoat instead of all cash for your skins, we willsend you for \$55 worth of skins an \$55 Ulster with full-skin, unplucked Otter collar. Latest style with belt. Heavy dark brown, all-wool mixture. Free circular with picture of ulster and complete details. Send for it today.

Canadian Fur Traders, Inc. 1564 Woodward Ave., Detroit, Mich.





Gasolarm \$2.50 Do You Own A Ford or Chevrolet?

so, did you ever run out of gas?
Sure you did, just when you were in an awful hurry. But it will never happen again. They eliminate all worry and warn you when your gas is gettinglow. Send cash or money order and specify model and style car. Local agents write for our proposition.

DYNAMIC SALES COMPANY 2631 Woodward Ave., Room 506 Detroit, Mich.





First class condition, 41 inches long, weight 7 lbs, 83.50. Then for \$3 more, you may have a smooth bore barrel to shoot shot. This makes a wonderful combination. The smooth barrel can be interchanged by anyone in 5 minutes. Millions of Bird or Ball Shot cartridges, 3 cents each.

W. STOKES KIRK, 1627 N. 16th Street Dept. 31, Philadelphia, Pa.

lectric Fixtures and supplies. Save money Ask for and Wholesalers. 318 E. Adams Ave., Detroit, Mich.

Please Mention The Michigan Farmer when writing to advertisers

# Dairy Farming

TO FURTHER TUBERCULOSIS CAMPAIGN.

DAIRY interests everywhere are pleased with the inclusion of an appropriation of \$600,000 to pay indemnities for cattle slaughtered in the anti-tuberculosis campaigns. This appropriation is included in the recent deficiency appropriation bill of congress. The item was placed in the bill by the senate and was unanimously approved in conference.

THE STICKER IS THE WINNER.

THIS is no time to quit the breeding and dairy business, Prof. O. E. Reed, head of the dairy department of Michigan Agricultural College, told members of the Western Michigan Holstein Breeders' Association at their special winter meeting In Grand Rapids. He stated the largest rewards come to those who stick in the business permanently, through lean and fat years.

"The fellow who goes in on the jump and out on the slump gets nowhere," said Professor Reed. "He buys when the prices are highest and sells when they are the lowest."

The future of the breeding industry depends upon the individual interested, according to Professor Reed, who pointed out that a cow which may be a world's record breaker in one breeder's hands may be a farm breaker in made use of owing to inadequate another's, depending upon the care and feed given the animal.

Promotion of community bull associations was advocated to enlarge the market for pure-bred sires and exchange of sires among breeders to reduce service fees and develop cattle along high producing family lines was near future. This soil may be producrecommended .- R.

#### MARSHAL FOCH FIGHTS FOR MILK.

THE National Dairy Council reports a recent incident which occurred in Cleveland to show Marshal Foch's attitude toward milk. Upon reaching Cleveland Marshal Foch found a strike on, and it was quite difficult to secure milk, many deliveries having been stopped. This did not interfere with the great old general's breakfast at all for he appealed his case to the chief of police and secured a flying squadron which sailed under his name and within an hour's time returned to his train with the morning's supply-six quarts of milk and six quarts or cream.

General Foch knows the value of maintain health and vitality without a good supply. If Marshal Foch will fight for milk, why shouldn't every man, woman and child become a fighter for this essential food?

The great French general is now seventy years old and he knows and says that milk is no baby's food but, on the contrary, food for all ages.

#### TUBERCULAR FIGHT WILL CON-TINUE.

of dairy herds in Michigan promised this matter of soil building and imto put an end to this work until the proved varieties of grain and potatoes. The state administrative board has, is impressed at once by the earnesthowever, come to the rescue and al- ness, enthusiasm and moral atmoslowed the use of moneys from the phere about it. After having seen this important work. Since the first of I am of the opinion that the man own-July \$58,381 have been paid out and ing the land is equally as important, there is now owing \$52,105 to farmers if not more so, than the nature of the for animals already slaughtered.

H. H. Halliday, commissioner of ag- en farm.

riculture, states that 68,000 animals were tested during the fiscal year ending last June and that 83,000 have been tested during the last six months. The department is now taking a county as whole and cleaning up every herd instead of following the old plan of examining a herd here and there. This work has been carried on in Livingston, Emmet, Antrim, Grand Traverse, Charlevoix, Jackson, Hillsdale and Wayne counties. On January first a force of testers began work in Kent. When the disease is stamped out of a county it is required that every cow or bull brought into the county thereafter be tested for tuberculosis.

#### MR. FOSTER FINDS HIS FARM.

(Continued from first page).

the land would not grow clover without lime. As a result of his method of soil improvement Mr. Foster is able when he so desires to obtain excellent catches of alfalfa and the yields are also satisfactory. The marl, acid phosphate and organic matter tell the story. He is marling ten acres of land for alfalfa and plans to sell it to his neighbors for hay. This means another cash crop for him. He seeds alfalfa and sweet clover on the sandy land as early in the season as possible.

#### Muck Land to be Considered.

The muck soil on this farm is not drainage. The county drainage ditch that runs through it is partially filled and as a result the water table lies somewhat near the surface of this muck. If this can be remedied it is proposed to put on cooperative crops and fertility tests on this land in the ing excellent yields of hay, beets, rye and others within a few years. If drainage can be brought about here lies an important source of income, which is now being neglected.

Does It Pay?

As I stated early in this article, this system has been followed because it proved to be pleasant and profitable to the Foster family. As he states it, he could not be persuaded to return to the old way or methods followed by his neighbors. He hires little, if any, labor and the household duties are less than they were formerly. He and his wife have much time for reading and are able to travel extensively if they so desire. This year he sold from the farm 1,550 bushels of marketable potatoes, ranging in price from \$1.00 to \$1.15 per bushel. He has raised his milk and recognizes that he cannot yield from seventy-five to upwards of one hundred and seventy-five bushels per acre. They were dug one day and sold out by the evening of the next day at the farm, the quality of his product being recognized. He also had two hundred and forty bushels of certified rye which sold at \$1.00 per bushel. This was disposed of for seed. In addition he has two hundred and seventy bushels of inspected Worthy oats which he proposes to sell this spring for seeding purposes.

Probably the most important part of THE depletion of the special funds the results is the fact that Mr. and appropriated for the cleaning up Mrs. Foster are intensely interested in legislature could replenish the funds. In fact, when one visits this home he emergency funds to carry along the place six years ago and again recently soil, in governing the success of a giv-



# Larro cost could be cut\$7a ton

# Are we right in keeping faith with dairymen?

We could cut the cost of Larro \$7 a ton in two ways. One by adding such fillers as oat hulls, cottonseed hulls, ground screenings and similar low-grade materials. The other by using offgrade ingredients.

Any of these substitutes could be cunningly hidden. But oldtime Larrodairy feed users would immediately detect them. The milk flow would quickly de-

A reputation is staked on Larro quality

We never have and never will cut the quality of Larro. A lifetime of experience has shown the fallacy of saving at the expense of quality. It has shown that it pays to keep faith with American dairymen.

So, in making Larro we use only cottonseed meal testing 43% protein. No musty or sour bran escapes our inspectors. All ingredients must be of certified quality. Our reputation is staked on Larro quality each day.

#### A wonderful blend

Larro success as the always reliable dairy feed is due, not alone to honest methods, but also to the discovery years ago of a wonderful blend. This blend is exceptionally palatable and easily digested. It brings vigor, vitality and health. Above all, milk yields are largely increased and the period of profitable lactation is prolonged. Wherever used. this blend has produced remarkable results.

Today a corps of expert men are jealously guarding this rare blend. They make an average of 3700 inspections and laboratory tests each month. They use the latest and finest instruments of precision. To keep down the cost we have provided hundreds of labor-saving appliances. Thus, we do in minutes what would require hours in the ordinary way.

That is why we say, comparing Larro with crude home mixtures and unreliable prepared feeds is like comparing hand skimming with the modern cream separator. Home mixtures are troublesome, quality varies and they are seldom efficient. Low milk yields and profitless herds usually follow their use. They are far more costly in the end.

#### Take the coupon to your dealer

Get a two-bag trial of Larro dairy feed now-on our no-risk planand test it for yourself. But be sure it is Larro. Look for the name on sack and for our guarantee inside. This guarantee assures you more milk or your money back.

If you don't know a nearby Larro dealer, mail the coupon to us. We will tell you where you can get Larro.

THE LARROWE MILLING COMPANY, 830 Larrowe Bldg., DETROIT, MICH.



# FOR DAIRY COWS

TO DAIRYMEN:

This coupon, if presented to the local dealer, entitles bearer to a two-bag trial on the Larro money-back guarantee plan. If mailed to us, we will send name of the local Larro dealer.

R. F. D.\_

TOWN

STATE

## A "balanced diet" may sound confusing to many people

The facts, as explained here, are simple.

The secret of a "balanced diet" is to have food containing all the elements needed for proper nutrition. These elements are protein, to nourish the tissues; starch and sugar to furnish energy; fat to supply heat; and mineral salts to provide the material necessary for building nerves, brain, and tooth and bone structure.

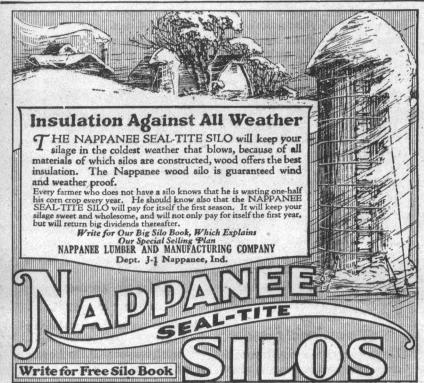
Grape-Nuts, the nourishing cereal made of whole wheat flour and malted barley, served with cream or milk, is a complete food for young and

Go to your grocer today and get a package of Grape-Nuts. Eat it with milk or cream for breakfast; or with stewed fruit, jelly or jam, as a delicious dessert for lunch or dinner.

Every member of the family will relish this palatable and nourishing food-

#### Grape-Nuts—the Body Builder "There's a Reason"

Made by Postum Cereal Co., Inc., Battle Creek, Mich.







#### Please Mention The Michigan Farmer When Writing to Advertisers

# Our Service Department

Always Give Name and Address When Sending Inquries

I would like your view of a fair division of the milk check, John furnishes the cows and Joe furnishes the feed and does the work. The milk is sold for twenty cents per gallon.—H. S. M.

Usually, when a man furnishes a herd of cows with the farm renter the produced on the farm. Where extra feed is purchased the farmer and renter pay fifty-fifty and the milk check is divided fifty-fifty. Sometimes a little different arrangement is made with regard to the increase in live stock, much depending upon the quality of the cows furnished, whether they are pure-bred, grades, etc. Such things must be considered by the parties in-

#### BUCKWHEAT FOR COWS.

I have a few bushels of buckwheat that I can sell for \$1.25 per hundred pounds. Which would be better, to sell it at that price or mix a little with corn and oats and grind for cows?—D. H. D.

I think it would be much better to get your buckwheat ground into flour and save the buckwheat middlings. They are very rich in protein. You can use them to mix with corn meal or ground barley or corn or oats and get more good out of your buckwheat than you would to grind and feed it. If you raise corn and oats to feed you would practically get as much good out of the buckwheat middlings as you would if you fed the whole buckwheat and you will have the flour to sell.

#### TENANT'S RIGHTS IN PERSON-ALITY.

I rented a farm on halves. There was a gasoline engine there when I came and later it went wrong. I took it to a garage. Am I to pay half of the bill? I pay for all the gasoline and the lubricating oil.—H. B.

The lesse of the land gives no rights.

The lease of the land gives no rights in other personality on the land in the absence of agreement on the subject. And if the lease gives the use of the personality there is no liability on the owner to repair in the absence of an agreement to do so.-J. R. R.

#### WASTE BY MORTGAGOR.

A. bought a farm of B. on which there was a mortgage for \$2,000 and a second mortgage for a smaller amount and B. took an additional mortgage to secure part of the purchase price. A. cut some timber last winter and had it sawed into lumber for sale, but owing to the slump in price did not sell, but owing to the slump in price did not sell, but has same piled up yet. The holder of the first and second mortgages does not object to the timber being cut, but B. who has a third mortgage is making mortgage. ing an awful howl and says that he is going to attach the lumber and prose-cute for cutting the timber. Can he do either of these? There is some in-terest past due to B.—F. W.

The cutting of timber which impairs the security of the mortgage is waste to which the mortgagee can object; and he can prevent the removal and sale of the lumber so cut, if he is not otherwise secure .- J. R. R.

#### RAISING VEAL CALVES ON MEAL.

Would you tell me whether it is a wise practice to attempt to raise calves for vealing on separated milk and meal at the present prices?—Subscriber.

fed on new milk will return as much trial. J. R. R.

HOW TO DIVIDE THE MILK CHECK. for the milk as can be obtained for it in any other way unless one has a special market this winter. While a fair veal calf can be produced on separated milk and calf meal with meat as cheap as it is this winter such calves usually sell at a very severe discount and the returns are not nearly as satisfactory as where the calf is fed on whole milk. cows are fed from the undivided feed. The calf meals are only intended as a substitute for skim-milk in the raising of calves where one has a good market for their whole milk and I would not recommend the use of a prepared calf meal for either a veal calf or a calf which has skim-milk.-G. A. Brown.

#### DAMAGES DONE BY STOCK.

Am I responsible for damage done by my hogs on the adjoining farms when they get through the neighbors' fence? The line fence is an old wire fence with a picket about every six feet. My shoats, weighing about 160 pounds, go through it anywhere.—J. K.

In the absence of a line fence under the statute every person is bound at his peril to keep his stock off his neighbors. If there is a line fence he is liable for his stock getting through his part of the fence, and if he has not put up his part of the fence he is liable for their getting through anywhere. Now, the purpose of a fence is to confine the stock usually kept on the farm: but as a matter of fact, few line fences will stop small pigs, and our courts have never explicitly determined just how effective the fence must be in the absence of contract. The remedy is by appeal to the fenceviewers of the town, and have them determine what sort of a fence shall be maintained, and whether the fence now there is sufficient. The statute has given that prerogative to them .-J. R. R.

#### LIEN OF CHATTEL MOTRGAGE.

I have a renter under a lease and chattel mortgage. The mortgage is on one-half of stock, implements, etc., the other half is mine. This renter is sued by a former sub-letter for part of the renter's undivided one-half of grain and increase of stock of 1920 for his rent. Does my chattel mortgage come first, or the man who entered suit rent. Does my chattel mortgage come first, or the man who entered suit against my renter? The lease and chattel mortgage forbids sub-letting any part of the farm. Can I demand from sub-letter, rent for use of house, poultry house, garden, milk and firewood used while on my farm? I knew nothing of the transaction until late in the fall.—J. C. F.

If the chattel mortgage is recorded with the town clerk, it has preference No lien is acquired by merely bringing suit. The right to recover rent depends upon contract and agreement to pay it or facts from which such an agreement could be implied .- J. R. R.

#### IMPLIED CONTRACT.

A friend, last April, brought to my farm a young heifer to keep for him until next spring and nothing was said about the cost of care for her. She has had a calf and it is sold. Now, what share from sale of calf and milk belongs to me?—S. L. S.

S. L. S. has no interest in the heifer, milk or calf, other than a lien for his pasture. If there is an express agreement as to the amount he is to have, that settles it. If the circumstances are such as to raise an inference that the pasture was to be given Personally, I would not advocate the gratuitously S. L. S. has no remedy at feeding of calves on separated milk all. If there was an implied promise and calf meal for vealing, especially to pay, he is entitled only to what the not with whole milk selling as cheaply service was reasonably worth, to be as it is this winter. A veal calf well determined by the jury in case of a



# Here's Comfort and Warmth Found in No Other Shoes

Look for this label sewed on the inside of the tongue of every genuine Wobst Felt Shoe

#### Patronize the Wobst Dealer Nearest You

You will find the Wobst dealer the best man in your town from whom to buy any kind of shoes or other merchandise. He has been selected for the high character of his store, stock and trade.

ALPENA—M. A. Cohen
ANN ARBOR—Albert Lutz
BIG RAPIDS—Edson A. Darling
BOYNE CITY—Channing E. Chase
BOYNE FALLS—Fanning Bros.
BUCHANAN—D. Di Giacomo & Co.
CALUMET—Thos. J. Dwyer

CARO—Zemke Bros.

CHAMPION—Mrs. J. Levine

CHARLEVOIX—John Slezak Campbell Shoe Shop

CHASSELL—The Style Shop Chassell Merc. Co. CHESANING—I. Schonmuller

COLEMAN-J. M. Allen

CRYSTAL FALLS—Albert. W. Axelson.

DAGGET—Dagget Merc. Co. DAYTON—F. E. Strunk

DERBY-R. L. McKinney

DETROIT—R. & H. Shoe Co., 334-340 Gratiot Ave.
Stieber Bros.

EAGLE-Eddy & Peake

ESCANABA— The Boston Store Manning Peterson Shoe Co.

EVART-Fleming Shoe Co.

EWEN—Jensen Merc. Co.

GALIEN-G. A. Blakeslee & Co.

GAYLORD-F. E. Cook

GLADSTONE—The Boot Shop

HERMANSVILLE—Hayes Merc Co.

HIGHLAND PARK—Ford Market Shoe Co., 10 La Belle Ave.

HOUGHTON—Kirkish Bros.' Shoe Store

IRON MOUNTAIN—Fugere Bros.

ISHPEMING-Johnson Bros. Co.

LAKE LINDEN-Wm. Hopf

LUDINGTON—Forstind Bros.

MANISTEE—Miklas & Jarka

MANTON-C. J. Wahlstrom

MATTAWAN-Ryan Bros.

MARQUETTE—Chas Bernstin Getz Dept. Store Jacob Rose & Sons

MENOMINEE—A. P. Rasmussen, 2505 Broadway

Wilson-Henes Co.

MICHIGAMME—Peter Christenson Frank W. Majhannu

MILLINGTON—Charles E. Wright.

MINDEN CITY—Wahla Merc. Co.

MONTGOMERY—B. A. Dobson MUSKEGON—Jeannot & Nelson

NORTH ADAMS—R. A. Barber

NORTH LANSING—H. B. Kebler

OMER-M. B. Russell's Dept. Store

PENTECOST—Glen Daniels & Co.

PETOSKEY—Salisbury & Hazelton

PORTLAND—L. C. Lehmann Shoe Company

ROCKLAND-C. J. Fredrickson

ROYAL OAK—Ford Market Shoe Co., 415 Washington Ave.

Ye Bootery, Thos J. Jackson, Prop.

SAGINAW-Albert Baumgarten

SAGINAW, WEST SIDE—Paul Krause Clothing Co.

SIDNEY-H. Petersen's Sons

STANDISH-Otto Bernthal Co.

ST. IGNACE—A. R. Highstone ST. LOUIS—Boston Store

SCOTTVILLE—Reader & Co.

SEBEWAING—John Rummel & Co.

SPARTA—A. A. Johnson & Co.

STEPHENSON—Frank Lienna

STERLING-R. M. Gordon

WEST SAGINAW-J. O. Hare, 410 Court St.

WEST BRANCH.—John Tolfree

You folks who think you know the meaning of real shoe comfort and warmth—who think you have found a shoe of exceptionally long life—we want you to go to your dealer and ask to see a pair of Wobst Felt Shoes.

If you have never worn felt shoes it is time you became acquainted with them. If you have been dissatisfied with felt shoes you have bought, look at a Wobst Shoe—and notice the difference.

Made of the finest wool-felt, Wobst Shoes give you warmth and comfort you have never known—warmth and comfort impossible in a leather shoe. Built with guaranteed fibre counters, full grain upper leather where leather is used, and sewed by expert workmen with genuine shoemakers' thread, Wobst Shoes actually cost less per mile of wear because they last longer. And their purchase price is no higher than that of common felt shoes that are not nearly so well made.

The Wobst line includes both men's and women's plain felt, leather foxed and full vamp shoes—either unlined, grey felt, or wool-fleece lined—with choice of felt, combination felt and leather, and all leather soles. If no store near you carries Wobst Shoes send us the name of your shoe dealer and we will see that you are supplied.

#### Men's No. 751

This 9-inch Blucher style shoe, with its heavy black felt upper, is exceedingly popular with the man who looks for extreme shoe durability and foot comfort. Where leather is used, it is selected all grain—not "split". Lining is of high-grade grey wool-felt; sole is combination felt and leather; rubber heel.

Sizes 6 to 11



## Our 100% Guarantee

Only the best of materials and workmanship go into Wobst Felt Shoes. Any buyer who finds a defect in a pair of Wobst Felt Shoes may return them to his dealer who is authorized to refund the full purchase price of the shoes.

WOBST SHOE CO. 413-415 VLIET ST.



# \$279 Profit in a Few Days

#### How a Woman Paid \$100 for a "Ferocious Brute" and in a Few Days Made it Worth \$379

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

In a few days she had the mare eating out of her and! In a few days this "ferocious brute" became hard and willing worker. In a few days Mrs. CCutcheon turned \$100 into \$370. What was the inert! How did she do it?

#### The Secret of Horse Training

The Secret of Horse Training
Mrs. McCutcheon, like more than 107,000 others,
learned the secret of mastering horses from Prof.
Jesse Beery's Course in Horse Breaking and Training. And thru learning Beery methods she was able
to sell the mare for \$237 more than she paid for it.
It took Prof. Beery over 30 years to learn these
secrets. They are now all disclosed in his home
study course in horsemanship. No matter how
mean, wicked-tempered or wild your horse may be
he cannot resist the Beery methods. They are easy
certain—and humane. They guarantee lasting
results. Bad traits are overcome for good and
for all. Bad habits are broken forever.

Big Profits For You
You can make big money breaking and training

You can make big money breaking and training reen colts or "ornery" horses. Hundreds of our

former students now make a business of buying up "outlaw" horses, training them, and selling them at large profits. Others make big money in their spare time, All find it profitshels. What they have done, you can do. Our free book tells you how.

Free Book
Our big illustrated book "How to Break and Train Horses", tells you how you can become master of any horse, Gives you several pointers on how you can make easy money. Full of interesting reading. Send for it today! Fill out coupon below, Or a post card will do, WRITE NOW!

THE BEERY SCHOOL OF HORSEMANSHIP

461 Main Street Pleasant Hill, O.

Prof. JESSE BEERY,

451 Main Street, Pleasant Hill, Ohio.

Dear Sir. Please send me free and postpaid your book, "How to Break and Train Horses."

Street or R.F.D.

Post Office.





They have proved themselves the best by Earliness and hardiness are bred into Isbell seeds through years of scientific culture. They produce big, thoroughbred crops just as thoroughbred cattle produce thoroughbred offspring. They inherit a rugged, big-yielding quality that makes them grow even in spite of hardships. It takes experience to produce such seeds and Isbell has had 43 years of it.

S. M. ISBELL & COMPANY

528 Mechanic St.

Jackson, Michigan



Your name and address on a post card will bring you this valuable book— it describes the best in seeds-gives cultural directions—shows how Isbell seeds are grown and quotes direct prices. It is one of the most helpful catalogs in America. And samples of Field Seeds in which you are interested will be sent free on request. Send today—It's Free.

#### Cheaper Gas for Fords

HOT SPOT

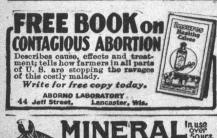
Guaranteed to save 20 to 30 cents on each dollar. More power, quicker warming up, sweeter running, no carbon. Accomplished

through complete vaporization by the Scoe Hot Spot. Price \$5.00 installed. Sold by any garage. Or send \$4.00 for sample with plain directions. Satisfaction or money back.

Local Agents, Write for Money-Making Proposition

Briscoe Devices Corporation

Pontiac, Michigan





Please Mention The Michigan Farmer when writing to advertisers



# Francisco Farm Notes

By P. P. Pope

they are both well Hardship! You and I have no idea

responsibility to the public none too worth \$140 and she got the money. seriously.

erhead lies an aerial mail route over tralized rural high school building which the great mechanical birds pass each day to and fro.

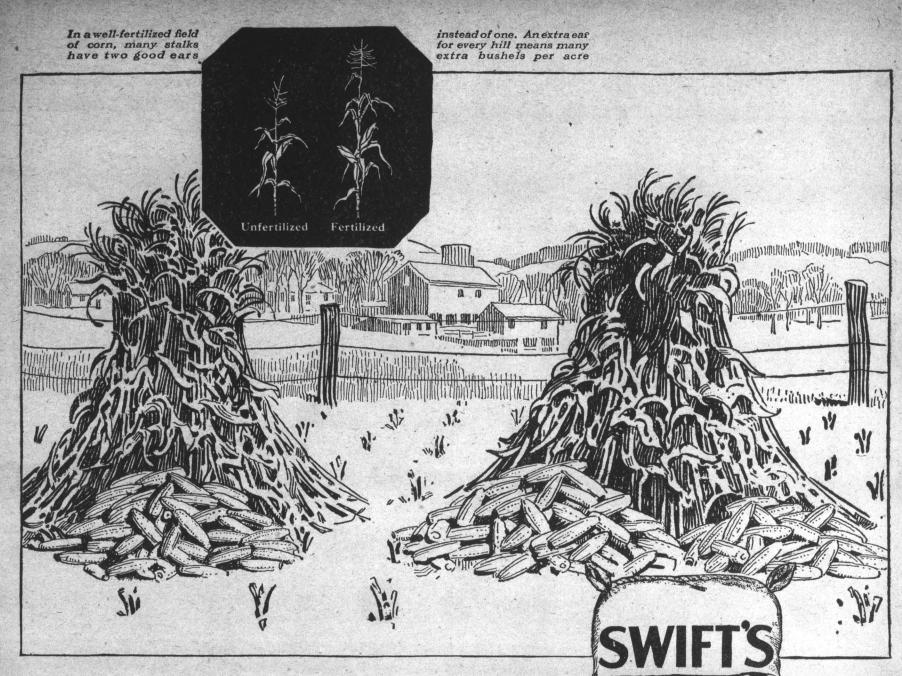
years when, as the story comes down wonder if the opportunities his grandto us, my maternal grandfather with children enjoy are not greater than he his good wife and family of six chil- ever dared dream; I wonder if he dren, settled here, and I marvel at the thought civilization had reached its contrast. Perry's great naval victory zenith and was receding during those on Lake Erie was then too fresh in the long hard years following the Civil minds of the inhabitants to be history. War. Who could say if he were here The little town of Perrysburg on the now to witness the remarkable ad-Maumee river had sprung up and been vance of the century, that he could named in his honor. From this place, hold anything but an abundant faith in with their ox teams and what I pre- the future welfare of his country.

HE old year is rapidly drawing sume would in later years have been to a close as I write. The joyous called prairie schooners, came the set-Yuletide is passing merrily with tlers. Twelve miles out in a southeastthe home folks. Good old Santa Claus erly direction, through mud and water has made his usual rounds and has hub deep, waded the caravan. They lightened his load materially at this followed the route where now roll the house, where the better half of the rubber tires over the historical Mc-Pope household was raised. We come Cutchenville Pike, as far in a minute here often. It is a good place to be, as the early travelers made in an hour. especially at Christmas time. We usu- Here along the north side and back a ally make the trip-about two hundred little way from a small stream, they miles-via. state trunk line. It is a came to a sandy ridge, a slight rise delightful drive in pleasant weather, from the dead level and made camp. the way always strewn with new and Here the father of the family lived but interesting things. Occasionally such a short time and passed to the great familiar things as detours and blow- beyond. The brave little mother staid outs appear to add local color to the on with the six children, the eldest of event. I do not need to enlarge upon which was my grandfather. He was these affairs as thirteen years old.

known to Michi- of it. Corn bread and potatoes, withgan Farmer read- out salt, for weeks at a time; shoes ers. It was en made from home-cured hides, hair and gine trouble this all; the crudest of clothing, but a sharp time. Had to put axe always. There was lots of work to on a new engine be done. The land was heavily timberat Milan, Borrow- ed. Great oaks, hickories, and elms, ed it off a freight chopping, chopping, chopping, then log train. You see, we rollings and burnings. Slow, hard, came by rail this tedious work, but out of the forests time. Some of the gradually came the fields, and the golpassengers thought the first in the en- den corn and the wheat, and the catgine went out once or twice, and an- tle. Grandfather must have been some other said they had to stop the train relation to me for he liked the cattle. while the crew got off to catch a rab- He rode the country on horseback for bit, but even at that we made pretty miles around, even up into the lower good time. I do not remember any time counties of Michigan, buying cattle to that we had to "back up to whistle." feed, here a few, there a few, buying I fear these automobiles, with their on the way out, picking them up on "push" and their "pep," with their the way back, the drove increasing as dashing response to the least whim of it neared the feed lots. On one of their passengers, have spoiled us. these trips he stopped at a home where They take us when and where we he found a very good pair of steers please, and as rapidly as we want to that had been used as oxen. The man go, with only an occasional remon- of the house was away but the woman strance. When we get on the train told him they would sell the cattle, the job is up to the train crew, and that her husband said she should ask we are sometimes persuaded that rail- \$140 for them, but if she could not get way officials and employes take their that to take \$120. The cattle were well

Grandfather lived all his life and It is a great country, this land in died at the original home site, clearing northwestern Ohio, down along the old more land, raising more corn, and feed-Maumee. Replete with history and ro- ing more live stock as the years wore mance, thrilling with stories of adver- on. The days of adversity were long sity and adventure. Teeming with past, and in his later years, when the richness and prosperity. It is a level writer was learning to walk and say country, I think sometimes painfully his letters, the increase from the busilevel, devoid of any suggestion of a ness at the old homestead was buying hill or a hollow. Some of it is prairie, a new eighty every year. He left be-Lots of it known to geographical stu- hind him nine families of grandchildents as the "Old Black Swamp." Most dren, some of them still at the old of it heavily timbered originally. It is homestead, some with parents and a rich country, rich in all the elements grandparents, lie cold and still in the that bring prosperity. The soils are little cemetery down the lane. Others black and deep and very productive. are scattered to the four winds, from It was upon exactly one acre of this Boston to California, and from Michisoil that the writer grew 7,560 pounds gan to Florida. Back on the old farm, of ear corn back in 1914 without ma- now under the third generation of live nure, and incidentally copped a \$100 stock farming, production remains at prize. It is literally covered with a net- high tide. Beef and pork are still the work of drainage canals and ditches, chief sources of income. The family and underlaid with thousands of miles and the stock are comfortably housed, of tile drains. Hard-surfaced roads a veritable country boulevard passes made of crushed limestone, bound with the door, the electric car goes whirtar, lead everywhere. Automobiles ring by, and here on the corner of the rush hither and thither like so many farm, where highway and railway inexcited ants, and five hundred feet ov- tersect, is now going up a modern cen-

I wonder if grandfather ever dreamed of "getting out of the woods," back I hark back close on to a hundred in those trying days of his youth! I



# The extra bushels make the profit

WHETHER the farmer used fertilizer or not, war-time prices made it comparatively easy for him to make a profit.

To make more profit—then—the more progressive farmers used Swift's Red Steer Fertilizers; to make sure of a profit—now—it is equally necessary to use Swift's Red Steer Fertilizers.

With low priced farm products you must raise more bushels per acre to make a profit because the average yield without fertilizer very often will not pay the cost of production.

The extra bushels produced over and above the cost of production are the bushels that really make the profit.

It costs the same for plowing, harrowing, seed, cultivation and land rent or interest whether you get a big yield or a small yield per acre.

Plan now to get the biggest possible yields per acre so that you will have enough bushels to pay the cost of production and the extra bushels which put money into your pocket. Decide now the extent of your farming operations this season, the crop you will grow and the amount of fertilizer you will use.

Order Swift's Red Steer Fertilizers now from the local Swift dealer or write us direct.

## Swift & Company, Dept. 41

Fertilizer Works Hammond, Ind.

Dealers who are now selling or could sell fertilizers should write for our proposition. Your territory may be open.



#### More and better potatoes

During the last five years, the average acre yield of potatoes in the older potato states of the East was 40% larger than the average yield in the comparatively new potato lands of Wisconsin, Michigan and Minnesota.

Ordinarily, one would expect the new potato lands of the Northern states to outyield the land of Eastern states where potatoes have been grown for years. Eastern potato growers use fertilizers extensively. They find that applications of 1,000 to 2,000 pounds per acre of high analysis fertilizer pay big returns on the potato crop.

Thousands of tons of Swift's Red Steer Fertilizers are used each year on the potato crop of the East. The fact that this tonnage has steadily increased year after year is their best endorsement.

Increase the yields and profits of your potato crop—by liberal use of Swift's Red Steer Fertilizers.

# Reduced 22% Melotte, snassufacturer of the greatest cream separator the world has ever known, announces a sweeping reduction in prices. Take advantage of this condition while it lasts. Buy now and save money. Self Balancing Bowl The Melotte bowl is self-bal-dancing. Positively cannot get out of balance, therefore cannot vibrate. Can't remix cream with milk. Runs so easily, bowl spins 25 minutes after you stop cranking unless you applybrake. Noother separator needs a brake Bowl chamber is porcelain kined. Catalog FREE! Write for new Melotte catalog containing full description of this wonderful cream separator and the story of M. Jules Melotte, fits investor.

30 days' free trial—then, if satisfied, only \$7.50 and a few easy payments—AND—the wonderful Belgium Melotte Separator is YOURS. Don't buy any separator until you have found out all you can about the Melotte and details of our 15-year guarantee which is infinitely stronger than any separator guarantee. Write TODAY.

The Melotte Separator, H.B.Babson, U.S.Mgs., Dopt. 3001—2843 W. 19th Street, Chicago. IL.











HE FINDS TREES LIKE FEEDING.

MEMBERS of the Ohio State Horticultural Society who attended its midsummer meeting at Ashland saw an orchard which has not missed a crop in eleven years. It has not fallen off in yield even this year, when the apple crop of the state is barely a third.

When asked how he got trees to yield so well and so steadily, T. E. Thornburg, the proprietor of this orchard, said it was by "feeding" them. For twenty-five years Mr. Thornburg said he has been applying to his orchards fifteen tons of manure to the acre, and to each tree during the "blossom-pink" period five pounds of ammonium sulphate, five pounds of twenty per cent acid phosphate, and five pounds of muriate of potash.

Mr. Thornburg further stated that the stuff which makes apples come out of the air as well as up from the ground; that trees need a large leaf surface properly to build up large crops; and that it does not pay to prune young trees severely.

Included in the Thornburg orchards are ten Baldwin trees, now in their tenth year, which produced ninety-seven bushels last year. A Grimes Golden tree in its twenty-fifth year has produced a total of 267 bushels since 1914, with never an "off-season."

#### WHY NOT A MILK-FED SQUASH?

W E have milk-fed veal, milk-fed poultry, and numerous other delicacies, either raised or fattened on milk, and now comes along Mr. Wendall Richardson, of Ohio, with the milk-fed squash to tempt the vegetarian, as well as all lovers of that delicious winter dainty—the squash.

Even the most exacting coniseur of the squash has only to taste to be convinced that no other vegetable is half so delicious as this latest nursling, for such it is

Being literally raised on the bottle, it is tenderer, sweeter and of far richer flavor than the common squash, and raising it is not a process that requires either elaborate machinery or tedious preparation and detail.

There is no having to get its head between the knees, and then, between the dexterous feats of maintaining one's balance while holding the head firmly, gently pushing it into a bucket, and inserting one's middle and index fingers into its mouth in endeavoring to teach the younger members of the bovine family to procure its daily sustenance from a bucket instead of its mother.

All one has to do is to partly sever the vine to which the chosen squash is confidently clinging, insert it daily into a bottle of fresh sweet milk and it will obligingly do the rest. The squash will grow faster than ever before and take on a delicious, sweet, rich flavor.—J. L. Fowler.

#### BETTER SEEDS.

DROF. PAUL WORK, of Cornell, speaking on better seeds and how advantages in growing seed. One knows the percentage of his own seed, and if he grows his own seed and does it well he can turn a profit from the sale of the surplus; but you have got to be a plant expert and it requires a vast amount of labor and care to grow good seeds. It was his opinion that the bulk of the seeds would come from seedsmen; that men in the seed business are spending thousands of dollars to get good seed, while others were giving the matter of quality little attention, preferring to sell the cheaper seed regardless of quality.



# Why King George Doesn't Like to Live at Windsor Castle

A NEWSPAPER item says King George doesn't like to live at Windsor Castle. He prefers Buckingham Palace, because the plumbing is more up to date.

Modern plumbing is quite different from the plumbing of Queen Elizabeth's time, but in one respect the plumber of today follows the custom of three hundred years ago. In all cases where permanence and real economy are desired, he still uses lead for piping.

Water will run through lead pipes for ages, without causing decay or deterioration. Drainage methods improve, and fixtures become more convenient and more beautiful; but underneath, where real utility is required, lead pipe is still used, because men have never found any rust-resisting metal the equal of lead.

Lead is also the best material for the rain-water drainage system of the house. The picture on this page shows a pipe-head on one of the outer walls of Windsor Castle. It was installed, along with gutters, leaders, and spouts, in 1589. For more than three centuries the rains that beat upon this ancient royal residence have been carried off by these lead pipes—and they are still intact.

Civilized man has found hundreds of other uses for lead and lead products, and of them all the most important is the use of white-lead as the principal ingredient of good paint.

Tons of paint are used, every day, to adorn and preserve the surfaces of buildings. Tons of pure metallic lead are corroded, every day, to produce the white-lead which gives to paint its protective power. "Save the Surface and You Save All" is a slogan which is teaching the world that paint-protection means the conservation of millions of dollars yearly in property values.

Most painters prefer to use the paint known as "lead-and-oil," which is pure white-lead thinned to paint consistency with pure linseed oil. Paint manufacturers use white-lead as the principal ingredient of the paint they make—and the quality of the paint depends on the amount of white-lead it contains.

National Lead Company makes white-lead of the highest quality, and sells it, mixed with pure linseed oil, under the name and trade mark of

#### **Dutch Boy White-Lead**

Write to our nearest branch office, Department J. for a free copy of our "Wonder Book of Lead," which interestingly describes the hundred-and-one ways in which lead enters into the daily life of everyone.

#### NATIONAL LEAD COMPANY

New York Cleveland

Boston Buffalo Cincinnati Chicago San Francisco St. Louis

Save the surface and you save all - Bird + Variet

JOHN T. LEWIS & BROS. CO., Philadelphia NATIONAL LEAD & OIL CO. Pittsburgh



Some Products Made by National Lead Company

Dutch Boy White-Lead Dutch Boy Red-Lead Dutch Boy Linseed Oil

Dutch Boy Flatting Oil
Dutch Boy Babbitt Metals
Dutch Boy Solders

Battery Litharge Battery Red-Lead Pressure Die Castings Cinch Expansion Bolts Ulco Lead Wool Sheet Lead

Hoyt Hardlead Products for Buildings

# WORLD EVENTS IN PICTURES



The chimpanzee jazz band from the Selig Zoo in the west.



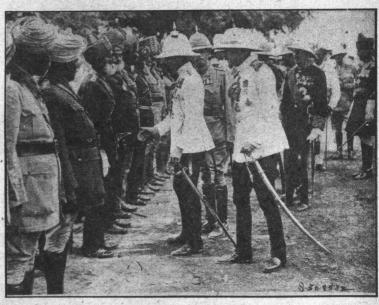
Ex-President Wilson on his sixtyfifth birthday.



Helen Keller, deaf and blind, is able to hear music through her finger tips.



Little Teddy Ayes gives the live stock a Christmas on the big Conway ranch in California.



The Prince of Wales reviews the war veterans of India at the time of his visit there.



The tenor in the revived opera Ernani.



A de Francisci, designer of the American peace dollar, and his wife, his inspiration and model.



The Fairport, Ohio, mayor is also a chemist.

The second of th



The old stage bus with elephants as motor power is used to convey sightseers to Indian ceremonies.



A record-breaking family. Sixteen children, that's all. Raised in California where things grow good.

# THE BLIND MAN'S EYES

By William MacHarg and Edwin Balmer

Copyright by Little Brown & Company 

"I should think so. If any one in that position wanted to use the information brought to your father, he could make himself millions overnight, undoubtedly, and ruin other men."

"And kill Father too," the girl added quietly. "Yes," she said as Eaton looked at her. "Father puts nothing above his trust. If that trust were betrayed now for your father?" -whether or not Father were in any way to blame for it-I think it would kill him."

'So you are the one who is in that position."

"Yes; that is, I have been."

"You mean there is another now; that is, of course, Mr. Avery?"

'Yes; here at this house Mr. Avery and I, and Mr. Avery at the office. There are some others at the office whom Father trusts, but not completely; and it is not necessary to trust them wholly, for all Father's really important decisions are made at the house, and the most important records are kept here. Before Mr. Avery came, I was the only one who helped here at

"When was that?"

"When Mr. Avery came? About five years ago. Father had an immense amount of work at that time. Business conditions were very much unsettled. There was trouble at that time between some of the big eastern and the big western men, and at the same time the government was prosecuting the vate matter not connected in any di- him spring to the side as quickly as come of it all would be; many of the biggest men who consulted Father were like men groping in the dark. I don't suppose you would remmeber the time by what I say; but you would remember it, as nearly everybody else does by this: it was the time of the murder of Mr. Latron."

"Yes; I remember that,' 'said Eaton; "and Mr. Avery came to you at that time?"

"Yes; just at that time I was thrown from my horse, and could not do as much as I had been doing, so Mr. Avery was sent to Father."

"Then Mr. Avery was reading to him at the time you speak of--the time of the Latron murder?"

"No; Mr. Avery came just afterward. I was reading to him at that almost ready to speak; now-" time."

"No one but you?"

"No one. Before that he had had Mr. Blatchford read to him sometimes but-Poor Cousin Wallace-he made a terrible mistake in reading to Father once. Father discovered it before it was too late; and he never let Cousin Wallace know. He pretends to trust Cousin Wallace now with reading some things; but he always has Mr. Avery or me go over them with him afterward."

deal for a girl of eighteen."

"At that time, you mean? They were, but Father dared trust no one else."

"Mr. Avery handles those matters

"The continuation of what was going on then? Yes; he took them up at the time I was hurt and so has kept on looking after them; for there has been plenty for me to do without that; and those things have all been more or less settled now. They have worked themselves out as things do, though they seemed almost unsolvable at the time. One thing that helped in their solution was that Father was able, that time, to urge what was just, as well as what was advisable."

"You mean that in the final settlement of them no one suffered?"

"No one, I think-except, of course, poor Mr. Latron; and that was a pri-

replied to, which could have made any change in him. She studied him an instant more, fighting her disappointment and the feeling of having been rebuffed.

They had been following the edge of the road, she along a path worn in the turf, he on the edge of the road itself and nearer to the tracks of the motors. As she faced him, she was slightly above him, her face level with his. Suddenly she cried out and clutched at him. As they had stopped, she had heard the sound of a motor approaching them rapidly from behind. Except that this car seemed speeding faster than the others, she had paid no attention and had not turned. Instantaneously, as she had cried and pulled upon him, she had realized that this car was not passing; it was directly behind and almost upon him. She felt

an accident there and coming up from behind the way he did! No; he meant to do it! Did you see who was in the car-who was driving?"

g anamaninamannamannamannamanni

He turned to her quickly. "Who?" he demanded.

"One of the people who was on the train! That man-the morning wethe morning Father was hurt-do you remember, when you came into the dining-car for breakfast and the conductor wanted to seat you opposite a young man who had just spilled cof-You sat down at our table instead. Don't you remember-a little man, nervous, but very strong; a man almost like an ape?"

He shuddered and then controlled himself. "Nothing!" he answered her clasp of concern on his arm. "Quite steady again; thanks. Just dizzy; I guess I was jarred more than I knew. Yes, I remember a fellow the conductor tried to seat me opposite.'

"This was the same man!"

Eaton shook his head. "That could hardly be; I think you must be mis-

"I am not mistaken; it was that man!"

"Still, I think you must be," he again

She stared, studying him. "Perhaps I was," she agreed; but she knew she had not been. "I am glad, whoever it was, he didn't injure you. You are all right, aren't you?"

"Quite," he assured. "Please don't trouble about it, Miss Santoine."

He dusted himself off with her help \*and tried to limp as littre as possible; and when she insisted upon returning to the house, he made no objection, but he refused to wait while she went back for a car to take him. They walked back rather silently, she appreciating how passionately she had expressed herself for him, and he quiet because of this and other thoughts too.

They found Donald Avery in front of the house looking for them as they came up. Eaton succeeded in walking without limping; but he could not conceal the marks on his clothes.

"Harriet, I've just come from your father; he wants you to go to him at once," Avery directed. "Good morning, Eaton. What's happened?"

"Carelesness," Eaton deprecated. "Got rather in the way of a motor and was knocked over for it."

Harriet did not correct this to Avery. She went up to her father; she was\_ still trembling, still sick with horror at what she had seen—an attempt to kil one walking beside her. She stopped outside her fathers' door to compose herself; then she went in.

The blind man was propped up on his bed with pillows into almost a siting position; the nurse was wih him.

(Continued next week).

trusts. Nobody knew what the out-rect way with the questions at issue. Why do you ask all this, Mr. Eaton?"

"I was merely interested in you-in what your work has been with your father, and what it is," he answered

His step had slowed, and she, unconsciously, had delayed with him. Now she realized that his manner toward her had changed from what it had been a few minutes before; he had been strongly moved and drawn toward her then, ready to confide in her; now he showed only his usual quiet reserve-polite, casual, unreadable. She halted and faced him, abruptly, chilled with disappointment.

"Mr. Eaton," she demanded, "a few minutes ago you were going to tell me something about yourself; you seemed

"Now I am not, you mean?"

something I have said?"

He seemed to reflect. "Are you sure that anything has changed me? I think you were mistaken. You asked if I could not tell you more about myself; I said I wished I could, and that perhaps I might. I meant some time in the future; and I still hope I may-

His look and tone convinced her; for she could recall nothing he had

he could; but her cry and pull upon him were almost too late; as he leaped, the car struck. The blow was glancing, not direct, and he was off his feet and in motion when the wheel struck; but the car hurled him aside and rolled him over and over.

As she rushed to Eaton, the two men in the rear seat of the car turned their heads and looked back.

"Are you all right?" one called to Eaton; but without checking its speed or swerving, the car dashed on and disappeared down the roadway.

She bent over Eaton and took hold of him. He struggled to his feet and, dazed, tottered so that she supported him. As she realized that he was not greatly hurt, she stared with horror at the turn in the road where the car had

"Why, he tried to run you down! He "Yes; what has changed you? Is it meant to! He tried to hurt you!" she cried.

"No," Eaton denied. "Oh, no; I don't

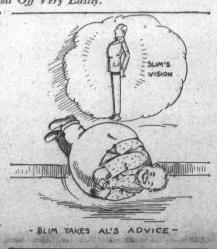
"But they went on without stopping; they didn't wait an instant. He didn't care: he meant to do it-"

"No!" Eaton unsteadily denied again. "It must have been-an accident. He was-frightened when he saw what he had done."

"It wasn't at all like an accident!" "The papers must have been a good asked about herself or that she had she persisted. "It couldn't have been

AL ACRES - Slim's Fat Does Not Roll Off Very Easily.







# Where Moth Doth Not Corrupt

Our Weekly Sermon-By N. A. McGune

ments of Roger W. Babson are takgospel, as they are by business men. ed force was ready to guard that girl Perhaps farmers do not watch for the and her mother from devastation by a business forecastings of Mr. Babson, well-known man. Little heed is given and his diagnoses of financial troubles, as business men do. But Babson has some pretty good things to say, and of late he has been turning preacher. When a layman turns preacher the folk in the pews usually wake up and listen, for a while at least. Babson has been preaching a good deal, and is still at it. He has put out several books, such as "The Future of the Churches," "The Fundamentals of Prosperity," and "Enduring Investments." The writer has read all of

these and thinks that "Enduring Investments" is the best of them. It goes without saying that Mr. Babson is a Christian man, a member of the church and a regular attendant. One of the things he is insisting on is, that the ministry should be paid

more. Judging from what he says, one would like to be the pastor of his

In "Enduring Investments," he has is a regular sermon. "As the nation became more prosperous, we began to lose sight of our original purpose; namely, the development of men. We became absorbed in the development of things. We forgot that our ancestors came to America to give little children a chance. Instead of giving them a chance, we put them into mines and mills." , "In the early days, the white-steepled church on the public green was the most important edifice in the town, and the preacher at the church was the leading citizen of that community. As wealth increased, a great factory building became the most important structure and the president of the bank usurped the place of the preacher. We made property of more value than human life, and industry of more importance than spiritual growth." If your preacher said that, you would say he was getting socialistic, but these words are written by one of the most conservative of American business men, and one who receives thousands of dollars annually for his opinions as to the industrial and financial condition of the country.

H E goes on to tell an experience he had during the police strike in Boston. He says he went into Boston to one of the banks with some securities. Marching up and down before the bank were soldiers with rifles. Even the negro porter inside had a belt of cartridges around his neck, like a string of beads. Afterward, he went to a store and found that guarded in the same way. Everywhere there were the state troops guarding property. On his way home, he had to stop his automobile in one place, because of the crowd. Inquiring the cause, he learned that a poor family was being evicted from its home. The rent had been raised, and the family of a poor woman, her children and the grandmother were pushed out into the street. On getting home one of the letters awaiting him was one from a mother inquiring the address of a man who had gotten her daughter into trouble. That night, Mr. Babson sat thinking. He said he could almost see the bolshevist's point of view. Government is organized to protect property, not peo-

DO not know whether the state- ple. "No soldiers were in Cambridge to protect that poor family which was en by farmers generally as law and being evicted from its home. No armto the security of souls.

THE Bible teaches us to put first things first, but we do not do.it. We put first things second, and second or third things first. The author tells of finding an ancient newspaper. It was made up, not of divorce scandals, prize fights, and robberies. Three items received the most attention, the teachings of the churches, and the sermons, the progress of the government, and the important events in Europe. Before seed was planted, an entire day was devoted to fasting and prayer, that the crop might be bountiful. (This was a legal holiday in Massachusetts until a few years ago). When the crop was harvested, there was a day of thanksgiving and praise, to the God of harvests. When the question is asked, "What's the matter with business?" the answer is not always easily come at. "The truth is, that we are now trying to have legislation, banking, labor unions and other material forces take the place of the spiritual forces which have really developed America." "Enduring prosperity and enduring investments come from three factors: (1) natural resources; (2) labor, and (3) that intangible spiritual quality a chapter entitled, "Men vs. Goods." It . which led the Pilgrims to these shores three hundred years ago, which stretched the railroads across the prairies a hundred years ago, and which built factories, steamships and other things during the past decade. Moreover, these spiritual qualities can be developed only through the natural means which God devised."

A new kind of dishonesty has arisen among us. The grocer does not adulterate the sugar any more, but large numbers of people adulterate their work. The farmer no longer puts good apples at the top of the barrel, but deception permeates large sections of American society. Bluffing takes the place of honest work. Youth is not taught the value of hard work, as it once was, and parents indulge the silly talk such as, "I don't want my boy to have to dig and labor as I did. I want him to go to college so he won't have to work so hard." As if hard work ever hurt any one.

HE author of "Enduring Investments believes that the first factor in education is the religious one. Religion should first be taught. But it is against the law now to even read the Bible in some states, and in his own state the author says that a superintendent or school board may be fined even for inquiring as to the religious beliefs of a prospective teacher. The same applies to political beliefs: In other words, an anarchist and an atheist might be engaged for your school, and you would not have the right to inquire beforehand as to his ideas on those questions.

The old type of business man went through three stages: First, to get on. Second, to get honor. Third, to get honest. This type is fast disappearing. To wait until one retires before he begins to do good with his money is foolishness. A man may not live to retire. No time is so propitous for doing good as the present. By so doing one lays up treasures where moth and rust do not corrupt, nor thieves break through and steal.

Blinks: The undercrust to that chicken-pie you brought me was abom-

inably tough.

Waiter: There wasn't any undercrust to that pie, sir, it was served on a paper plate.—Boys' Life.



Since you can't see quality in fertilizers and must buy them on faith, your best guide is the reputation, experience and facilities of the people who make them.

A A C Quality Fertilizers have behind them the largest manufacturing organization, and are supported by the combined experience of such leaders as Bradley, Bowker, Stockbridge, Liebig, Wheeler, Coe, Lister, Crocker, Detrick, Zell, Hess, and others—probably the most noted group of fertilizer men the industry has ever known.

No man need ever guess what's in the bag if the brand is "A A C." It contains maximum fertilizer efficiency.

An important part of this organization is its Agricultural Service Bureau, conducted by Dr. H. J. Wheeler, formerly Director R. I. Agricultural Experiment Station. This Bureau carries on practical experimental work in all sections of the country, to determine just what fertilizers are best adapted to each crop and locality. WRITE to this Bureau, in care of the office nearest you, for suggestions on your particular crop problems. No charge or obligation. WRITE for free booklet "How to Get the Most Out of Fertilizers."
WRITE for the A A C agency if we have no dealer near you.

THE AMERICAN AGRICULTURAL CHEMICAL CO.

Address nearest office

Baltimore Boston Buffa'o Cincinnati Columbia, S. C.
on, S. C. Detroit Henderson, N. C. Jacksonville Los Angeles
tery New York Morfolk Raleigh St. Louis Savannah Etc.

DOUBLE A. QUALITY



When You Write to Advertisers Please Say "I Saw Your Ad. in The Michigan Farmer."

armers surrywhers look to us as usual for ly"seeds. No one will be disappointed. You and upon "Supreme Brand" seeds, as being of lity, fully tested, and guaranteed as to purity . Subject to rigid State and Government tests.

#### HARDY, BIG YIELDING **NORTHERN GROWN**

GLOVER From Northern fields where excessive cold winters prevail, hardmess, vigor, strainty bred into every-seed. Big, bold, plump blue berries-cleaned and graded,—the kind that produces paying crops. Grown in the Northwest where climatic conditions are ideal—producing extra select quality, high in purity and germination, specially selected for their ability to withstand excessive droughts and winter freezes

The new annual White Sweet Clover.
Recommended by leading Agricultural
Colleges. Catalog tells all about this wonderful crop—our
prices lowest on certified seed. Biggest money-making crop of
the day. Ask about it. soil SWEET CLOVER

SUDAN Finest hay and pasture grass. Defies drought—resists cold—yields abundantly gray, inexpensive to sow. Three crops a season. Used extensively by leading farmers and stockmen. Big hay crop within ght to eight weeks from sowing.

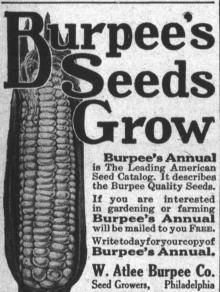
#### Generous Samples Free

ur name on a post-card will bring samples of any Farm or ass seeds for you to test. Our Big Illustrated Seed Manual your guide to better crops. Our freight-paid prices save a money. All free for the asking.

1. The form of the saking of the saking of the saking of the today.

Not connected in any way with any other mail order seed house.

Seed Manual World Seed Co. 23 West Madison St. Chicago, 111





Guaranteed Fresh Tested Seeds Full of Life and Growing Power

PAKRO Seeds are the purest, strongest, freshest and most rigidly tested seeds money can buy. Absolute satisfaction or money back. To new customers we will mail three 10-cent packets of PAKRO earliest vegetables, Radish, Lettuce and Tomato for 10 cents. Write today for the PAKRO Garden Annual in four colors—a wonderful guide to better gardens—free.

American Seed & Seedtape Co.







# Our Boys' and Girls' Page

# A Club Boy's International Experience -

International, who will surely remember his trip to the Windy City. His Michigan, Macomb county. Quentin, who is named after the dauntless chickenpox the second day of his visit to the great exposition, and was quarantined for fifteen days. This young man is fifteen years old and he has had what amounts to a graduate and post-graduate course in scientific corn growing. In other words, he has been in club work four years and has made an intensive, first-hand study of this crop and demonstrated to himself what can be accomplished by proper methods. He won third prize in the corn exhibit contest.

The first year he was in the work the crop looked so poorly that Quentin decided that he wouldn't even take a chance on counting the yield, so the corn was cut and put in the silo.

Profiting by his first year's experience, he took better care of the crop the second year and made a yield of fifty-three bushels on one-half acre, winning the county championship.

The third year his crop was late in maturing and being afraid of frost he cut the corn a little too soon, so that it shrunk in the shock. In spite of this, however, it yielded fifty-six bushels on the half acre, or at the rate of 112 bushels per acre.

The fourth year, 1921 was Quentin's banner year. In the first place, he paid \$2.50 for one peck of corn on the cob, which he used for seed. The strain is known as Pickett's corn, a species of yellow Dent. The soil was a mixture and varied in different parts of the plot, which was on a knoll, part of it was a sandy loam and part a loamy clay. Four loads of barnyard manure were spread on the half acre and in addition 173 pounds of complete fertilizer was used. The plot was planted by hand on May 19, five kernels to the hill. It was cultivated three times and



Miss Grace Holtrop, Home Economics Engine Cab.

THERE is one boy out of the five hoed once. The first week of September of the first week of hundred prize-winning club mem- ber Quentin cut his corn, and as it was bers who visited Chicago during the pretty well matured and dried out, he was able to husk it the second week. It yielded seventy-three bushels of ear name is Quentin Friedhoff, of Warren, corn on the half acre, or at the rate of 146 bushels per acre, which not only won Quentin the county championship Quentin Roosevelt, was taken with again, but gave him a free trip to the International Live Stock Exposition, It also places him in the running for the state championship, which is yet to be decided.

As the average yield of corn in Michigan is under forty bushels per acre, Quentin's achievement stands out as a shining example of what may be accomplished by scientific and intensive methods of culture.

#### STATE LEADERS' NOTES.

The determining of state canning champions and the prize trips and exhibit contests featured the month.

The state canning champions are: First year, Theo Swegles, Plymouth, Wayne county, 4681/2 quarts. Second

year, Mary Piechiowiak, Bay City, Bay county, 1,103 quarts. Third year, Elvis Alford, Detroit, Wayne county, 185 quarts. Fourth year, Agnes Martin, Charlotte, Eaton county, 185 quarts.

Six canning club members were sent to the International Stock Show by the Wilson Packing Company, and Hazel Atlas Glass Jar Company. In addition to the four champions named, Beatrice Effrick, of Bay City, and Zeta Weigand, of Macomb county, were sent.

Michigan club members won five out of seventy prizes offered by the Hazel Atlas Glass Jar Company.

Some of the clubs in Newaygo county are carrying on the work for the fourth year, and are doing some splendid work. Although there is no one in the county in charge of the work, good local leadership makes it pos-

The New Hampshire Extension Service prints a one-act play called "All Alone in the Country," which is adaptable to rural meetings. Address Director J. C. Kendall, Durham, New Hampshire.

To the Interstate Corn Club Contest at Baton Rouge, Louisiana, Michigan corn club members sent ten exhibits or one hundred ears. Burlin Bradley, of Charlotte, Eaton county, won a first and a third place on his two exhibits. His awards were \$15 and \$5. Congratulations!

At the International Hay and Grain Show, Chicago, Michigan was in competition with several states which had made twenty-eight entries of club corn. Michigan won two places out of the five awarded. Joseph Warsop, of Athens, Calhoun county, won second place, and Quentin Friedhoff, of Warren, Macomb county, won third place. Their awards were medals. Club members are demonstrating their ability to uphold the honors which Michigan exhibitors have won at the past Hay and Grain

The Hazel-Atlas Glass Jar Company has awarded several prizes for the best individual jars on fruits, vegetables, or meats, put up in Hazel-Atlas glass-top jars.

The United States was divided into four sections, Michigan being included in the northern section. In this sec-Specialist, Ready for a Ride in the tion Michigan canning club members won four prizes. They are as follows:



"MY brothers were fine upstanding youngsters. As for me—I was badly sweenied and nobody gave a hook-joint whether I became a plough-horse or a saw-horse. I WAS swapped around 'till finally I got a regular boss who said, 'Sound as a nut, except that blamed sweeny. We'll soon get rid of that.' And he did with Gombault's Caustic Balsam".

GOMBAULT'S CAUSTIC BALSAM does the work better than firing. Hair will positively grow back natural color.

A positive remedy for Curb, Splint, Sweeny, Capped Hock, Strained Tendons, Founder, Windpuffs, Skin Diseases, Thrush, Spavin, Ringbone, Throat and Bronchial Troubles, Will not scar or blemish. Supercedes all firing and cautery.

Sold by druggists, or sent by par-cel post on receipt of price \$1.50 per bottle. AS A HUMAN LINIMENT

It is unsurpassed for muscular and inflammatory rheumatism, sprains, sore throat, burns, bruises, cuts, etc.

The
LAWRENCE - WILLIAMS CO.
Cleveland, Ohio

## **GOMBAULT'S** Caustic **BALSAM**



Carter-Thorburn Collection

CARTERS SEEDS

They Come Up Smiling

They Co



STRAWBERRY PLANT Because 32 years' experience gives us the 'know how,' Whitten plants always grow and produce large, Juscious berrie all season. Exceptionally heavy-rooted, healthy antacel, Learn about 'Eaton—The Strawberr and Collins—The King of the Canners.' Collins—The Canners.

EVERGREENS Hill's Hardy

on peppers, also sixth prize on carrots; Jennett Mason, of Afton, Cheboygan county, won a special prize on Swiss chard, and Wilhelmina Nichols, of Quincy, Branch county, won a special Hazel-Atlas Glass Company. prize on preserves.

According to the Michigan State Crop Report for November, the state average yield per acre of corn was 37.0 for 1921 averaged 65.6 bushels per acre.

Fifty-four club champions and leaders made up Michigan's delegation to contest.

Elvis Alford, Detroit, won second prize the International Fat Stock Show at | Chicago, November 26 to December 1. Most of these champions had won the trip in live stock judging contests, although several were awarded by the

Calhoun county, which won in the State Fair Stock Judging Contest, sent the team which represented Michigan in the non-collegiate judging contest at bushels. Michigan corn club members the International. William Peters, Deo Kellogg and Ovid Martin did the work. Michigan won eleventh place in the

# Modern Rural Schools

and seeded the lawn, planted shrub- educational advantages. bery, and made files for the office. The girls of the Goodrich school are doing work that is just as utilitarian in its nature, such as serving hot lunches, making garments, and learning some of the lessons involved in the economics of a household. They purchase all materials and make an itemized report of the cost of each article made and of food served. The other rural agricultural districts are doing work of like nature. The main idea is to relate the course to the community life and activities.

A tract of land is provided for demonstration work in agriculture, which with the farms of the community, makes it possible to try out and verify investigations made in the laboratory and textbook work. The boys are taught something of the chemistry of the soil, food elements required for successful plant growth, and how to determine whether all of the elements are available in the soil. They are taught something of the physiology of plants; how they obtain food elements from the soil; the relation of availability of such food elements to moisture supply; the underlying principles of food manufacture in the leaves, and its dependence upon chlorophyl, sunshine and moisture supply. They are trained to be intelligent in regard to the use of plant and food elements in the form of commercial fertilizers. Through actual experiment they discover the limiting factor in the soil and the best form in which to supply it. They strive to learn how to produce as economically as possible, how to market farm produce to the best advantage, to know something of market demands, and to be governed accordingly in their farm operations. Attention is given to the economics of farm management and other problems that confront the average farmer.

The usual high school subjects are offered in addition to the vocational work and just as complete and thorough training is given in the essentials as is possible in any high school. Agriculture and manual training for the boys and home economics for the girls are given as part of the general science work and in lieu of courses in Latin, German or French. Students who have completed a high school course of this kind have just as much of an opportunity to develop as is possible in any high school and are well equipped to pursue a college course if they desire They are also trained to think in terms of the realities of life.

The school buildings of rural agricultural districts that are eligible to receive state aid must be properly heated, lighted and ventilated, must have an ample water supply, toilets with proper sewerage, library, and suitable equipment and apparatus for the teaching of agriculture, manual training and home economics. This in- education yet advanced. sures suitable physical conditions and and more perfect physical development used for transportation; 2, it will pay for the children and larger returns to \$1,000 per year toward maintenance.

frigerator in the cold air flue, graded the district for each dollar invested in

The tax rate in a consolidated district as well as in a primary district varies with the assessed valuation. Other things being equal, the larger the amount of taxable wealth the smaller the tax rate will be. In many of the more sparsely settled communities or where the assessed valuation is extremely low, the tax rate is very high in the ordinary primary district and would be correspondingly high under consolidation. Many unfair comparisons have been made of the tax rate of several years ago in primary districts with present costs under consolidation of maintaining twelve grades in the consolidated school; and of the number of children who receive school advantages in primary districts as compared with the number to receive school advantages in the rural agricultural district.

There has been a marked advance in the tax rate and the expense of maintaining a one-room school during the past few years. The per capita cost in some instances is as high for even an eighth-grade school as it is in the larger rural agricultural schools with twelve grades. In any case, after the expense of providing the building and equipment for the rural agricultural school is taken care of, the cost of maintenance in excess of state aid provided will not be much if any in excess of that in the ordinary graded district maintaining twelve grades.

The rural agricultural schools become the community center. Meetings dealing with education, economics and rural life problems may be held; entertainments and social gatherings may be provided so that all may have an opportunity to enjoy the advantages along these lines that are superior to those possible in the small district system. In several of these schools moving picture machines have been purchased. Suitable films have been secured each week for educational work in the school and clean, wholesome entertainment has been provided for the people. All of this has a welding effect upon the entire district and helps to bring about a closer cooperative relationship between the home and the school. The parents as well as the children are better fitted to cope with real life problems and to build the type of community that may be desired.

Rural education is not local in its scope. It goes to the very basis of our democracy. It concerns every individual in this country. There must be no difference in the opportunity of one class of our boys and girls from that of another class. Both must have an opportunity to face the work unhampered by educational limitations inherited from another day under other conditions. The consolidated school is the best solution of the problem of rural

What the state will do for the rural sufficient equipment to make possible agricultural consolidated school: 1, it thorough work. It means better health will pay \$400 per year for each vehicle

# Motor Secrets That Quickly Put Me On

Easy Street By O. H. JUSTUS.

NOT so very long ago, I was in the rut with millions of other wage earners. Today I'm head of a prosperous business and on "Easy Street."

I'm not boasting. I merely want to let other men know what they can do—if they will! It was not luck or brilliance

that put me where I am. I got there by simply using the common sense every man has.

man nas.
First, I selected the business offering the biggest opportunities, present and future—auto and tractor repair. But I found that I could never get anywher by "picking up" the trade—that to make the proper I must know the mechanical real money I must know the mechanical secrets of motors secrets that separate the \$2-a-day laborer from the \$40 to \$100



O. H. Justus and his big agency and repair shops at Parkersburg, W. Va.

a week of the trained mechanic. So, when I read one of Henry Rahe's ad-

when I read one of Henry Kane's advertisements, which said he could teach me those secrets in a few weeks in one his big shopschools, I wrote to him for the proof. And that letter started me toward "Easy Street."

A few weeks later I was a Rahe-graduate—master of the auto and tractor repair business—a free man with an assured future. From then on I never wanted for work an hour, and I was soon able to open my own shop, which ALWAYS has had from a week's to a month's work ahead of it.

If you want to free yourself from drudgery.

work ahead of it.

If you want to free yourself from drudgery,
do interesting work at big pay or get into business for yourself, write to Henry Rahe today.

#### I Want Men! I'll Pay Your Fare To Chicago, Cincinnati or Kansas City

I've started 40,000 other men to "Easy Street." I can and WILL start YOU If you'll just say you want to go. DO IT NOW.

HENRY J. RAME,

Want to start 500 more men toward "Easy Street" at once, just like I started Justus. YOU can be one of them, regardless of your age and education. You can get to my nearest school FREE, no matter where you live. If you want to get started QUICKLY, jump on a train for Rahe school nearest your home and I'll refund your fare the minute you enroll. Be sure to go to my nearest school to get advantage of this offer.

**Master Instructors!** Wonderful Shops!

Every instructor in my three schools is a MASTER of his business—trained by me and always under my supervision. Under these experts, in my wonderful shopschools with everything needed for your training, you, too, can quickly become a MASTER of this big-money business. No 'book learning' necessary. Just a few weeks' work with tools on actual motors and cars and you'll be ready to open your own shop or earn a salary of \$40 to \$100 a week.

Special Money-Saving Price. I've always

# 7-Day Guarantee

49,000 faction.

"Easy
can and
10U II
S, and THREE BILLION DOLLARS
will be invested in new ones this year.
THOUSANDS of new garages and Rahatrained motor mechanics will be needed, there is YOUR big opportunity. Get out of the rut! Get a pleasant job at REAL,
MONEY or open your own garage and be your own boss. Start corty—There is big money waiting for you NOW. Just write me pracoff that the EASY Rahe training will quiekly put YOU on "Easy Street."

Yours for quick success, TODAY!



Address Dept. 2591 of My Nearest School.



Send For Isbell's 1922 Catalog

Whatever kind of soil you have, there's an Isbell strain of alfalfa that will give wonderful yield. Hardiness and vitality are bred into Isbell seeds. Send today for your copy of Isbell's Seed Annual—the authoritative book on seeds and crops. Samples showing quality sent with it FREE. S. M. ISBELL & COMPANY 529 Mechanic St. (26) Jackson, Mich.



waist and inseam measure when ordering. SWEATER is made of good merino yarn with large stylyish roll collar. Two big neekets years warm and are stylyish roll collar. man by gookets, very warm and serviceable. Color, Groy of Blue. Sizes 34 to 46, Just soud your name and address giving color and sizes warted. We'll send both by parcel post prepaid not pay mailman when package comes, though backling bac

# KITSELMAN FENCE Sold on the Basis of Today's Cost we pay the Freight and save you money under our Direct from Factory to Farm Selling plan. Here is a man that Saved 24c a rod

Mr. C. F. Moindoo, Lyons, ind.
writes: "My. Fence arrived O. K. Like
it fine. Saved 24ca rod by buying of you.
Our big Catalog shows 100 styles and heights and is
yours for the asking. You can't afford to buy fence
until you see this bargain book. Write for it today. KITSELMAN BROS. Dept 278 MUNCIE, IND.









Always say "Bayer"

Unless you see the name "Bayer" on tablets, you are not getting genuine Aspirin prescribed by physicians for 12 years and proved safe by millions. Directions in package.

Aspirin is the trade mark of Bayer Manufacture of Monoaceticacidester of Salicylicacid



#### WE TAN

HILLSDALE ROBE & TANNING CO. Hillsdale, Mich.



Be what your friends think you are; avoid being what your enemies say you are, go straight forward and be happy.—M. M. Pomeroy:

# Woman's Interests

# On Judging Values

you'll certainly be repaid if only in the essential thing is to study in the study pleasure you give the teacher, and the period and to talk at recess time his added zest the children take in their marks will go up. So far he hasn't work. Undoubtedly, there'll be more learned how to judge values." than that to make you think the time well spent.

than usual this semester. They are might go back to the good old days never of the gold star variety, but when the tingle of a hickory stick helplately they have more nearly approach- ed the youngsters to judge values. ed the sort known technically as goose These new ideas of managing children eggs. Perhaps teacher might solve the read well, but they take so much long-

"The whole trouble is that your boy less sure, than the old ones. hasn't yet learned how to pick out But the idea of judging values and essentials," said the teacher. "He takes picking out essentials was all right

AVE you visited your school late- the study period. When he learns that ly? If you haven't, better make he can only do one thing at a time, the effort this coming week; and comes to the conclusion that the

All very pedagogical and essentially true, but so far it hasn't helped bring Son's standings have been worse up the marks. Somehow I wish he er to bring results, and are so much

his seat with the laudable idea of for me; I am old enough to see how to studying and getting a good mark. work it. So many things to fill our But all of a sudden he happens to days; so many things to give up or to think of something he wants to say to hold. How are we to decide to which the chap across the aisle. He begins to cling? A good way is to look ahead to talk, his mind is diverted from his a year, five years, ten years. Ask yourwork, there is a break, and a new start, self what will be the result of followall of which has consumed a portion of ing this course? Ten years hence will I wish I had taken a different road?

boys. So far I know of but one way to keep boys and unscratched furniture

furniture, but on the whole I think I the essential seems to be very plain. crafts throughout the peninsula.-C.



It is almost as marked in other things. Temperance in eating, or indigestion; a spotless house and a mother too tired to be good natured, or a little dust and a happy mother.

Learn to judge values and to pick the essentials if you want a successful

HOUSEHOLD DEMONSTRATION IN UPPER PENINSULA.

RELATIVE to the subject of household industries for Michigan farmers, Miss Aurelia B. Potts, assistant state leader of home demonstration agents for the upper peninsula, states that her department is putting on a home-made rug project which it is hoped to standardize in certain communities so that a market will be found for them. Standardization of design and material is said to be necessary in order to market such goods. Indeed, assurances from several merchants have been forthcoming that they can handle these articles if the necessary conditions are observed. It is hoped that samples of such work can be furnished by January, so that if acceptable, a market for the output will be established at an early date. Miss Potts reports that women in her territory have There's the matter of furniture or made over two thousand dress-forms, and that this work is being continued in every community where it has startin the same family. Drive the boys ed. The subject of household indusoutdoors as soon as meals are over, tries for farmers was recently considand do not let them in until bedtime. ered by a committee consisting of Mrs. Make them sit down shoeless every J. E. Lautner, Miss Aurelia B. Potts, minute they are in the house. This is Mr. A. G. Kettunen and Mr. G. E. Bishnot conducive to happy boyhood, or at op, meeting in the office of the Upper all likely to produce the best type of Peninsula Development Bureau, Marman, but at least the furniture is safe. quette, and it was determined that I have often sighed for good looking each member give individual attention to the idea and be on the watch for prefer good looking boys. In this case instances of successful home handi-

## You are entitled to the benefit of the doubt. Why not take advantage of it?

The law is very careful in protecting the rights of a prisoner charged with a crime.

How about the Law of Common Sense and the man who has committed an error only? Isn't this a good place to use the benefit of the doubt, too?

Take your own case: If you don't know for sure whether tea or coffee is harming you, you do know that many are harmed by the drug element in tea and coffee, and that headaches, nervousness, or high blood pressure are symptoms which often tell that the drug, caffeine, is giving the nervous system too much jolt.

Probably you know, too, that some people can't drink a cup of tea or coffee at bed-time, and sleep well that night.

Where many have been harmed by tea and coffee, and you may be harmed, isn't it well to put the benefit of the doubt on your side before doubt becomes an unpleasant certainty?

There's charm without harm in Postum-a pure cereal beverage, rich in flavor, fully satisfying; the favorite table drink of thousands.

Suppose you try giving yourself this benefit today, and keep up the test for ten days; then judge the results. See if you don't feel better and work better. You can get Postum wherever good food and drink are sold or served.

Postum comes in two forms: Instant Postum (in tins) made instantly in the cup by the addition of boiling water. Postum Cereal (in packages of larger bulk, for those who prefer to make the drink while the meal is being prepared) made by boiling for 20 minutes.

> Postum for Health "There's a Reason"

# Rugs and Their Care

Tily rugs and I care not who chooses the furniture, might be a good motto for the interior decorator, since so much of the good effect Add to the selection of rugs, the finish of floors, and you have a good foundation upon which to build up a satisfactory finish.

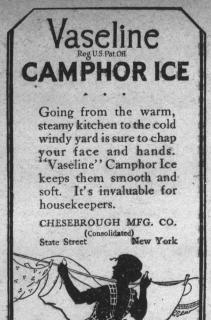
To begin with, floors should never have a shiny finish. For one thing, such floors show the slightest mark, and if they are so highly polished that they reflect objects the effect is disastrous. A waxed finish, applied so as to bring out the natural grain of the wood is best, not only for the greater ease in taking care of it, but for the general effect of the room. Then in choosing the rug, select one of a color which will contrast with the color of distract, but look for a touch of some your rug is apt to pull out tufts. hue which will give tone.

VIVE me the choosing of the fam- If the room is long and narrow, place small rugs crosswise of the floor. Rugs with large patterns or deep borders belong only in a large room.

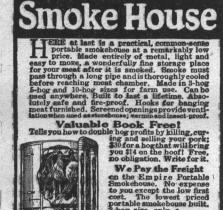
Having selected the rugs the next of a room depends upon the floors. important thing is to keep them in good condition. An important point in their care is to clean them daily with good carpet sweeper, and at least once a week with the vacuum cleaner, or sweep with a broom. Inexperienced housekeepers are frequently distressed by the amount of fluff and loose wool which sweeps off new rugs, especially Axminister. This need not cause alarm, however, as it is only the loose lint which remains when the rugs are "sheered" when they are finished.

If knots or tufts stick up on the rug, cut them off with sharp shears. To pull them out means to start a break in the the floor. Avoid garish colors which rug. Dragging heavy furniture across

Rugs should be washed at least once If your room is small, do not pick a year. To do this use a mild soap out a large rug which will cover the with warm water and a little ammonia. floor with the exception of a small bor- The ammonia restores the color. It is der around the walls. Instead select a good plan to have two pails of water, small rugs, placed some distance apart. one filled with a strong suds and one This will give an effect of greater size. with clean water for rinsing. Do only







Direct to You



**300 CANDLE POWER** son a few cents' worth of kers r gasoline. Better than gas a city. Whitest light ever pri Nothing to wear—simple. e. 15 days' trial. Satisfactic guaranteed. Write for speci offer on FREE lantern ar agency reposition. Act Nos KNIGHT LIGHT COMPANY Dept-3101 Chicago, III

New Winter Caught Pickerel Round 6c, Headless and dressed 8c, in boxes 125 bs. net weight. Smaller quantities 1-4c lb. higher. 1-4c per pound discount on 500 lb. lots or over. Write for complete price list of all varieties. Imported and Domestic Frozen, Smoked, Salted, Spiced and Canned Lake and Ocean Fish.

Johnson Fish Company, Box 44, Green Bay, Wis. sun-fast should be lined.

a small spot at a time, using only a. little water.

Turn the rugs about every month or six weeks. In every home certain portions of the room are used more than others, and unless the rugs are turned about worn spots appear.

#### Fabric Tests

By Clementine Paddleford

BUYING cotton goods and paying linen prices, that is what fifty per cent of the women shoppers are doing every day, simply because they have not learned a few of the simple tests for linen fiber.

Linen is much more expensive than cotton and when linen prices are paid, linen should be demanded. Since the two fibers are rather hard to distinguish, especially when heavily starched and given a good finish, it is quite easy to deceive the buyer. Linen collars are frequently largely cotton, and handkerchiefs marked linen, often do not have a thread of linen, as is apt to be the case with the rather inexpensive embroidered handkerchiefs. Table linen sold in some shops is often mercerized cotton, cotton and linen, or even just ordinary cotton.

If the shopper would guard herself against cheap imitations she must remember that the linen fiber is long, smooth and quite lustrous when spun into a thread. That it is very strong and does not have so many fuzzy ends as are found in cotton. To distinguish linen from cotton the buyer must examine the threads carefully. Cotton is made up of short fibers which project from the surface of the thread and become fuzzy when the thread is rubbed between the fingers.

When broken, cotton has a tufted end, while the linen fibers break more unevenly and leave a more pointed end. The linen thread should be stronger than the cotton, it has more luster and is usually more uneven. Some kinds of linen have flat threads, but cotton is frequently finished in imitation of flat thread linen.

The old test of moistening the finger and putting it under the cloth is not always a sure one, as the moisture will not come through a heavy linen, or one with much starch in it, and it will come through a sheer lightly twisted cotton. A good test but an impractical one to use while shopping is to put a drop of olive oil on the cloth and press between blotting papers. The linen will become more transparent than the cotton. Another thing that is well to remember when buying table linen is that a good linen has a peculiar leathery feel which cotton does not have.

In buying linen it is also well to know the different weaves most appropriate for various uses. The typical weaves used for linens are damask, satin, or sateen weave, used for table linens and towels. This is especially good for the former, because of the very smooth lustrous surface it affords. However, it is not so good for towels as it does not readily absorb moisture, although it is very attractive.

Huck, an uneven weave, giving a good surface for the absorption of water makes splendid towels, and decorated with designs in damask weave, may be very handsome. Many linens in plain weaves are available for clothing, embroidery and the like. Coarse Russian crashes are popular for decorative purposes.

#### SILK POPLIN DRAPES.

Drapery houses are suggesting silk poplin for drapes, not only in livingrooms and dens, but in bedrooms as well. As it is not absolutely sun-fast, it should be lined with cream satin. This will prevent fading and give body to the drapes as well. All drapes not

# Why bother to pump and carry water?

When you need water for any of the many household or farm chores it's much handier to open a faucet and secure an abundance of running water, under pressure.

# HOOSIER Water Service

equipment will enable every member of your household to enjoy the convenience of running water—under pressure. This equipment means improved sanitation for the farm, suburban or small town home. With it you may install a modern bathroom, have water in the kitchen, on the lawn and at the barn.

#### Easy to Install-Easy to Operate

Hoosier Water Service equipment may be installed in any home. There is no need to wait until you build a new home or remodel your old one. Anyone can easily operate this equipment. Any power, electric motor, gasoline engine, or windmill may be used for operating one of our water supply systems.

Why not plan on equipping your home with running water? Write today for catalog and learn how easily this may be done.

#### FLINT & WALLING MFG. COMPANY

Dept. C, - Kendallville, Indiana 



Satisfaction Guaranteed or Money Refunded. Order by Mail or Send for Further Particulars.

Diamond Dil Heater Attachment Co.



"For just one week my net profits were \$164," writes R. A. Moyer. He is only one of hundreds making hig money acting as our representative for this wonderful new light. **Burns Kerosene or Gasoline** 

Burns Kerosene or Gasoline
Gives 300 candle power soft, brilliant light, restful to eyes. Costs
to an evening. Absolutely safe.
Lights with match. Most wonderde light of age—Table Lamps, Hanging
amps, Lanterns. Big season now on. You
un carn as Moyer has. Work all or spare
me. Commissions paid same day you take
rders. No experience necessary. Write toTHE AKRON LAMP CO.

204 Lamp Ridd. Akron. Oldio

381 Lamp Bldg., Akron, Ohio







Frozen fancy, large, dressed Herring, 4%e per pound. Remit with order or send for complete list before buying elsewhere. CONSUMERS FISH CO., Green Bay, Wis.

#### STRAWBERRY PLANTS

and a full line of Raspberry, Blackberry, Grape and other bush fruit. Asparagus, Rhubarb, etc. Send for Free Catalog. J.N. Rokely & Son, R.6, Bridgman, Mich

#### Farms and Farm Lands

Farm Bargain To Settle An Estate

Farm bargain 10 bettle An Estate
We offer for sale at the same price as paid 15 years
ago 480 A. of level, heavy sandy loam, 4 miles from
Marshall. Michigan. All titlable, 400 A. under enlibration. 40 A. second growth oak, 40 A. cut over land,
60 A. of rye, 40 A. seeded. Good wowen wire fences,
Good 14 room house for two families. Well shaded
lawn. Two large basement barns. Horse barn, two
siles and other usual out buildings. Two wells, windmill, good school, telephone, R. F. D., etc. Price
\$65.00 per A.; terms-cash subject to present mortgage
of \$8,000. This has been used as a stock farm for
years. Correspondence or right investigation invited
O. H. Billings, First National Bank, Marshall, Mich.

\$3000 Secures 200-Acre Farm \$3000 Secures 200-Acre Farm
\$10,000 Buildings; 4 Horses And
12 Cows, hay, ensilage, corn, oats, straw, binder, drill,
manure-spreader, gas engine, machinery, vehicles,
tools, included; on improved road, near Rt town, high
school, ready markets; convenient city; 160-acres preductive, loamy tillage; spring-watered, wire-fenced
pasture; abundance wood; about 120 apple, plum,
cherry, peach trees; fine 7-room house, plazzas, excellent view; 20-cow cement-basement barn, full line
modern dairy fixtures, tile silo; garage, granary, milk
and poultry houses. To settle affairs all \$15,000, only
\$3000 needed, easy terms. I mmediate action unged.
Catalog free. J.L.Cross, 508 Bush Bldg., Flint, Mich.

100-Acre Michigan Farm With

Horses, Poultry, 16 Cows and Young stock, cream separator, blacksmith outfit, full modern implements, feed for stock, vegetablesfor winter included; convenient RR station, stores, etc.; 60 acres rich toam tillage, spring-watered pasture, fruit; good 2-story 7-room house, 50-ft. harn, windmill. To close out all \$500. less than half cash, easy terms, Details page 76 Illus Catalog 1300 Bargains. FREE, STROUT FARM AGENOY, 814 BO Ford Bldg, Detroit, Mich.

#### An Opportunity For A Home In The South Coupled With A Good Investment

I offer eighty acres of land, forty of which are planted to oranges and pecan, the oranges to hear in 1922. Located on the main traveled road, one mile from depot in a thriving, prosperous town, nine miles from gulf, five miles from tide water. Community settled with northern people; good markets, good soil, pure water and the best possible climate. Bargain. P. J. COONEY. Foley, Ala.

Big Money In Strawberries

\$500. down secures immediate possession of 20 acres near Gladwin, new house, harn, poultry house, 20 apple trees. Strawberries will pay for this in 3 years. Price \$1,600. I have other farms for sale.

U. G. REFNOLDS, Owner, Gladwin, Mich.

WANTED To hear from owner of land for sale.

O. K. HAWLEY, Baldwin, Wis.

Michigan Farms for berries, fruit, grain; stock, ranches. Write us your needs, We can fill them at right prices. PORTER & WYMAN, Muskegon, Mich.

10 acres, 7 in bearing orchard, \$2250, 1-3 cash.
ORCHARD KNOLL. Spring Lake, Mich.

I Would Like to hear from owners hav-sale. Box 100, Route 5, Millington, Mich. Mention The Michigan Farmer When Writing Advertisers

# Let Certainty Replace Gamble

EXPERIENCED poultry men all over the world depend upon Buckeye "Colony" Brooders for success. These brooders literally make three chicks grow where one grew before, cut the expense to half and reduce labor to a fourth.

#### Success is Certain

Hundreds of thousands use Buckeye "Colony" Brooders because they have learned their reliability, their economy and their convenience. Experience has proven beyond question that Buckeye "Colony" Brooders raise every raisable chick. With such equipment the gamble goes out of chick raising and you have the assurance of success.

Made in three sizes; burn coal, gas or oil. Sold on a money back guarantee by 15,000 dealers.

**Proof For the Asking** Ample proof of these statements is contained in our new booklet. "The Revolution in Chicken Raising" You need the help of this booklet in your efforts. Sent free. Write for it today.

The Buckeye Incubator Co. World's Largest Manufacturer of Brooders and Incubators.
811 Euclid Ave. Springfield, Ohio

POULTRY



The highest class practical stock in Michigan; stock that each year is also now being shipped to poultry farmers of other states.

You will like particularly the White, Brown and Buff Leghorns of this breeding; they give the eggs. Also Barred and White Rocks; Reds; Wyandottes; Drpingtons; Anconas

STATE FARMS ASSOCIATION B3, Kalamazoo, Mich.

# **Chicks Baby Chicks**

Order your baby chicks now from Michigan's largest practical Single Comb White Leghorn Egg, pullet and broiler farm. We supply all the eggs that go into our incubators from our own strain of Bred-to-lay S. C. White Leghorns hems [2000] and have a few thousand surplus chicks to spare at certain periods of the season.

We turned away orders for thousands of chicks last spring as our supply is limited and we absolutely refuse to sell anything but our own stock. So order early and avoid disappointment.

We guarantee satisfaction in every way.

Prices on application.

Macatawa White Leghorn Co., Inc. R. F. D. 1, Holland, Mich.

Whittaker's R.I. Reds Moth combs. Greatest Color and Egg Strain. Free, by blood test, from bacillary white diarrhea. If you are interested in Breeding Stock, Day Old Chicks or Hatching Eggs write for our Twelfth Annual Catalog. It is free. INTERLAKES FARM, Box 39, Lawrence, Mich

BARRED ROCKS Surplus breeding stock all sold. More hatching eggs next spring. More cockerels next summer and fall. From stock from Parks best pedigreed pens. R. G. KIRBY, Route 1, East Lansing, Mich.

Barred Rocks, W. Wyandottes, R. I. Red stock. HOWARD GRANT, Marshall, Mich.

#### BOOKING-1922-ORDERS B-A-B-Y C-H-I-X

WHITE LEGHORNS AND MOTTLED ANCONAS
Also Black Leghorns, Brown Leghorns, Buff Leghorns, Black Minorcas, R. O. Rhode Island Reds,
Barred Plymouth Rocks, White Plymouth Rocks,
Silver Wyandottes, WE HATCH
eggs from Hoganized flocks on free range on separate
farms. Send for Price List.
Valuable Booklet with first order for twenty-five or more
CRESCENT EGG COMPANY
Allegan Michigan



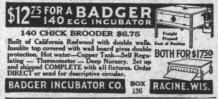
Barred Rocks egg-contest winners, eggs from strain with records to 290 a year. \$2.00 per setting prepaid by P. P. Circular free. Constantine, Mich

Barred Rocks Exclusively. Cockerels farm raised. Bred from M. A. C. championship show. Describe color, size, laying ability wanted. \$3.00 and up. ROSEMARY FARM, Williamston. Mich.

Barred Rocks That Lay Cockerels. Pullets. Look up my records at laying contests. Write for prices. G. Caball, Hudsonville, Mich.

Barred Plymouth Rock Cockerels, large birds from prize-winning heavy-laying strain \$5.00 each. J. A. Barnum, Union City, Mich.





#### **GET MORE EGGS**

Make more money from your poultry. Let us prove to you that Lay or Bust Poultry Tonix will make them lay. Keep them free from disease and working overtime to fill the egg basket. Get eggs regardless of the weather. Satisfied users everywhere. Write today. Send 65c for package on our guarantee—money back if not satisfied.

THE CONN PRODUCTS CO., Bept. N, Waterloo, Iowa

#### POULTRY

Barred Rock Cockerels Bred from great layers W. C. COFFMAN, R. 3, Benton Harbor, Mich

BARRED Rock Cockerels. Hill's heavy laying strain Deep, narrow barring. Large birds \$4 and \$5 each Lucian Hill. R. 3, Tekonsha, Mich.

Barred Rocks Vigorous cockerels of splen-\$3.00 to CHAS. H. WRIGHT, Jones, Mich.

# CHICKS FOR 1922

Prices reasonable. Selected and Culled S. C. Eng. Whites and Brown Leghorns, Anconas and Pure Bred Barred Rocks. Also eggs for hatching after Feb.l, 100% Guaranteed.Postage prepaid. Catalogue free. FAIRVIEW HATCHERY, Zeeland, Mich., R. 2, John Bos & Son, Prop.

Choice S.C. White Leghorn cockerels \$5.00 each while they last. They are the big thrifty kind that beget persistent producers. MACALWHITE POULTRY YARDS, Caro, Mich.

CHICKS, Have shipped thousands each season prices. Freeport Hatchery, Box 12, Freeport, Mich.

ENGLISH White Leghorns and White Rock cockerels of a heavy laying strain C. R. SLADE, Leonard, Mich. Top Quality Cockerels Minorcas, Houdans, Spanish. Tyron Poultry Farm. Fenton, Mich.

Northrup or Papes Strain. 100 S. C. Giant Black Minorca cockerels 6 mo. old \$2.25 each. M. SCHAEFER, R. 1, Essexville, Mich.

RHODE ISLAND WHITES
win over all breeds at the egg laying contest. 30 eggs
\$5; 50 \$8; 100 \$15 order from this ad. Some chicks,
H. H. JUMP, R. 5, Jackson, Mich.

S. C. Rhode Island Red strain. Prices \$2 and \$250. HARRY A. SNYDER, R. 2, Byron Center. Mich.

Original Dr. Heasley S. C. Buff Leghorn flock. Egg Basket Strain. Officially Certified Egg bred Winners at Chicago, Cincinnati, etc. Gockerels breeding hens and chicks, at bargain prices. Also bred to lay English Strain S. C. White Leghorn chicks for 1922. Discount on Early Orders. Hillside Hatchery Farm, R.3, Holland, Mich. Successorto Henry DePree

Pullets and Breeding Stock 8 varieties, also ducks and geese. Send for prices BEOKMAN, 26 E. Lyon. Grand Rapids, Mich.

64 BREEDS Most Profitable pure-bred ducks, geese, turkeys. Fowls, eggs, incubators at reduced prices. 29th year. Largest plant. Large valuable poultry book and catalog free. R. F. NEUBERT Co., Box 314 Mankste, Miss.

# Winter Care the of Turkeys

· By N. Evalyn Ramsdell

WITH turkeys selling at forty eight cents a pound more than the of the birds that are to produce the fowl. flock next year. Many are lost every winter from careless methods, or from just letting the turkeys take care or themselves. Along in February each in keeping them well. They are susyear, I have five and six orders for the lost young tom, these customers saying, "I have lost my turkey tom."

Beware of Colds.

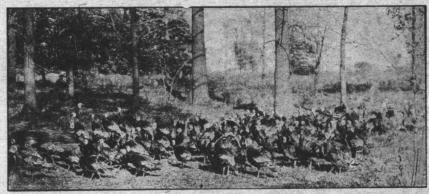
Perhaps the flock has formed the habit of roosting on fences or discarded farm implements, not high enough from the ground to be free from dampness or the odor from the droppings that have collected there. This will often bring on colds which may result in roup and other troubles. Give the in the top of a tree, for best results, let cated, farmers now are making chick-

cents per pound, live weight, it market on ordinary chickens and each is surely advisable to take care capon weighs about double an ordinary

Because capons are lazy and refuse to exercise, Meneghini has had some trouble since the weather became cold ceptible to colds and a slight draught in his coop caused him a peck of trouble. In a warm, well ventilated coop, Meneghini says any farmer ought to have little trouble raising capons to maturity and sharing in the velvet to be derived from them.-R.

#### POULTRY RAISING A BUSINESS.

S CIENCE and balanced rations appear to be more responsible for turkey a good substantial and fairly the larger production of eggs this winhigh roost, placed, if possible, where it ter than weather conditions." In westis protected from the north and west ern Michigan where some of the largwinds. Though he may do very well est poultry farms in the state are lo-



Miss Ramsdell's Flock of Turkeys.

are inactive, throw some grain in the same as from the larger flocks.-R. litter and let them work for it. It is a good plan to save some bundles of oats or wheat to scatter on the floor and let them thresh out the grain.

More than any other element of the weather, the turkey dislikes the wind. He will stand severe cold and not complain, but the wind seems to discourage him and he looks for some place to get out of it. Against the fence (running north and south) of my feeding yard, I place cornstalks, standing the bundles on end, making a solid wall of them. When the wind is east or west you will find the flock on the opposite side of the wall, enjoying the shelter and at the same time stripping the leaves from the stalks. This serves as roughage and is good for them and it is better that they should be exercising in some way than to be standingly no interest in life.

to maturity each year over ninety per cent of birds hatched. This article will be followed by one giving best methods of winter feeding.—Eds.

#### SUCCESS WITH CAPONS.

neighborhood how to double the returns from their flocks. Last year them in Grand Rapids at from five to of breeding stock that is retained.

him have shelter from continued bad en raising more a specialty than a storms. Not confined in a closed house sideline, and as a result of culling out as you would shelter other fowls, but slacker hens, breeding egg laying under a shed or any rude shelter that strains and feeding egg producing rawill protect him from the storms and tions, production has been materially wind. If he has had such a shelter increased without greatly increasing when young he will willingly go to it the number of hens in the flocks. The on stormy days when he is grown. Let Holland Poultry Association culled out the floor of this shed be free from 65,000 birds and reports from that secdampness, keep a clean litter of straw tions indicate that production from the on it and on cold days, when the birds smaller number of hens is about the

#### RABBIT HUTCHES.

I am going into the rabbit business and expect to make a run of about six by six feet by twenty inches high, portable for each of my does, and a yard to turn the young rabbits into as soon as they are weaned. Would this be an advisable way of proceeding to raise rabbits?—S. R.

In raising rabbits most breeders depend on the hutches which are six feet long, two feet deep and two feet high. One-third is partitioned off for a nest, with a round hole for an entrance and a tightly-fitting hinged door in front which permits the breeder to clean the nest and examine the young. The remainder of the front is covered with a wire door.

The small portable yards might ing on one foot in the snow, with seem- prove all right for exercise yards but some danger exists in using them. The does might dig out under the wire Miss Ramsdell has made an exten-sive study of turkeys and turkey rais-ing and is most successful, bringing to maturity each year even in the street of the wife young rabbits. Many breeders avoid this risk with young stock by keeping them in an upstairs room in a shed or barn. Sometimes the young are raised to market age in the same type of hutches used for breeding stock. I once had a rabbitry with exercise yards. I dug a trench one foot deep MR. A. MENEGHINI, of Allendale, around the outside and filled it with is showing poultrymen in his stones. This kept the rabbits from stones. This kept the rabbits from digging out and dogs from digging in.

A good open air rabbitry can be Mr. Meneghini caponized twelve of his made by using a shed with the front cockerels and made so well out of open. Then the individual hutches can them that this year sixty of them sub- be arranged in sections and the hutchmitted to the operation. He is selling es increased according to the amount

#### A FEW SUGGESTIONS TO POULTRY SHIPPERS.

RECEIVERS of poultry in the consuming centers are having their usual trouble with dressed poultry. This is caused mainly by a discoloration of the poultry due to improper preparation. When shipments in this condition are received the commission nouse has great difficulty in disposing of the product and then only at a reduced price. This usually brings a complaint from the shipper because of the low price, which is often unjustified.

It is by far preferable to ship poultry alive for then, if it should arrive at a time of the week which would necessitate its being kept over a few days, it could be done without detriment. It can also be prepared just before sale by the butcher so that it will have a fresh and clean appearance.

But if it is desired that dressed poultry be shipped, the following suggestions can be followed to advantage: After killing and bleeding, dip the fowl in boiling water to loosen the feathers. Then following the lay of the feathers wipe them off; do not pull them off for that breaks the skin, and any break in the skin will produce a green spot in a few days.

After the feathers are off dip the fowl in boiling water several times again, holding it in a second or two. This is to sear over the outer skin slightly and to make it cling to the inner skin. Immediately after put the body in running cold water, or ice water, and leave it there for at least four hours. This is to take out all of the animal heat and besides will give the fowl a nice plump appearance. It is very essential to have the fowl properly chilled before shipping.

Another essential to consider, especially in the shipment of dressed poultry, is the time of shipment. Poultry can be sold to advantage if it arrives at the market not later than Thursday morning. If it arrives Friday night or Saturday morning, it comes after all the butchers have been supplied for the Sunday trade. As it is difficult to keep dressed poultry over several days the commission man then has to force a sale at a sacrifice price, which causes extra work for him and invariably results in a kick from the shipper.

Chickens are more susceptible to discoloration in keeping after being dressed than turkeys, geese or ducks. Therefore, they should be shipped alive, or greater care should be used in dressing them.

#### HATCHING GOSLINGS.

We are raising geese but do not have very good luck. The trouble is to give the eggs the proper care, so as to produce good hatches. We were wondering if they could be hatched in an incubator successfully.—C. K.

Goslings can be hatched in an incubator, but it is not usually recommended, as poultrymen have found that it is more difficult to get strong birds than when they are hatched by hens. This is because the eggs take so long to hatch and require so much moisture. Cutting a moist green sod and placing it in the bottom of the nest seems to help eggs to hatch better. Goose eggs take twenty-eight to thirty days to hatch. After the first week the hens should be removed long enough to give the eggs an opportunity to cool each day. It also pays to sprinkle the eggs often as they need plenty of moisture.

When you see a fine poultry plant do not judge at once that it is paying a large profit. When you see rather poor looking buildings do not consider the owner a failure with hens. Sometimes the owner of the big plant clips company to help new his manager while coupons to help pay his manager, while the owner of the small plant is saving some hen money each year to help pay off the mortgage on the farm.



#### Cheap Feed and High Priced Eggs

—make the industrious laying hen Queen of the Barnyard these days.

Don't let your hens become fat and lazy. Don't let the egg organs lie dormant all winter long.

You can speed up egg production. You can make your hens lay now by feeding

# Dr. Hess Poultry PAN-A-CE-A

#### Universally Endorsed—Universally Used

—by the big ten-thousand-hen plants—by the average farmer with his 200 hens—by the back-yarder with his only a dozen hens to consume the table scraps. Pan-a-ce-a tones up the dormant egg organs, so that the proper amount of a hen's food goes to egg-making—and not all to fat, flesh and laziness when it's action and eggs you want.

A Pan-a-ce-a hen is always a hungry hen, an industrious hen—she gets off the roost winter mornings ready to scratch for her breakfast. You can depend upon it that the healthy, hungry, scratching, singing hen is the laying hen—the paying hen.

Always buy Pan-a-ce-a according to the size of your flock. Tell your dealer how many hens you have. He has a package to suit. Good results guaranteed.

25c, 75c and \$1.50 packages. 25 lb. pail, \$3.00; 100 lb. drum, \$10.00. Except in the far West and Canada.

DR. HESS & CLARK

Ashland, Ohio



# Dr. Hess Instant Louse Killer Kills Lice

#### SURPRISE!

We Have A Surprise For You In

# BABY CHICKS

All information free.

Get the facts on our WORLD FAMOUS TOM BARRON ENGLISH WHITE LEGHORNS, BROWN LEGHORNS AND ANCONAS.

Simply write your name and address on a card or in a letter and we will do the rest. WRITE TODAY.

Don't buy chicks till you get this wonderful offer. We can save you money. Superior Poultry Farms & Hatchery, Box 2053, Zeeland, Mich.

# BABY CHICKS Pure Bred for



Bred-To-Lay from flocks selected for standard quality and production. We offer Exceptional values in following varieties: Leghorns, Rocks, Reds, W. Wyandottes, Orpingtons, Minorcas and Anconas. Our prices are right when quality is in consideration as this should be the main point in view. Get our big catalogue of Baby Chicks, Brooders & How to Care for Your Chicks after you have them, it is FREE, for the asking. Write today.

Wolf Hatching & Breeding Co.,

Dept. 10,

Gibsonburg, Ohio

# \$1395 Buys 140 Egg-Champion Belle City Incubator Hot-Water, Copper Tank, Double Walle Fibre Board, Self-Regulated Safety Lamp, Deep Nursery, With \$7.95 Hot-Water 140-Chiek \$1995 grooder — Both for only \$1995 Freight Prepaid East of Bockies and allowed towards Express. With this Guaranteed Hatching Outfirt and my Guide Book for setting up and operating, your success is assured. Saye time—Order now—Share in my \$1000 in Prizes

\$1000 in Prizes
Or write for Free Poulty Book,
"Statching Facts." Jim Roban, Free.
Belle City Inculpator Co.
Box 14 Racine, Wis.

# 200 Eggs Per Bird FROM FLOCK OF 300

You want—not one—but a Flock of egg record White Leghorns. Our bargain prices on first quality Pedigree-sired Egg-bred Day Old Chicks will simply amaze you. We challenge the world to equal our prices on Day Old Chicks—eggs for hatching—breeding males—yearling hens—all shipped prepaid on approval, and direct from the center of the poultry industry. Write today for Free Bargain Price List.

UTILITY HATCHERY and FARMS Dept. 7041 Zeeland, Mich.



#### LEE'S LICE KILLER



Keep Chickens? Send for Free Sample Copy of America's 30-year-old Poultry Paper; tells how to select, breed, house and feed SUCCESSFULLY, 40-84 pages monthly, 4 mos. trial 25e; Yr. \$1.00 American Poultry Advocate, 80x 21. Syraouse, N.Y.

POULTRY

## **Wolverine Baby Chicks**

Improved S C. White and Brown Leghorns. Bred to lay for the past twelve years. Lay large white eggs. Our eleventh year. Shipped by parcel post. Safe arrival guaranteed. Our catalogue tells you all about our English type White Leghorns, list free.

WOLVERINE HATCHERY, Zeeland, Mich.

# JUST-RITE LOOK!

Baby Chieka 11-2 MILLION chicks for 1922. POSTAGE PAID. 95% live arrival guaranteed. MONTH'S FEED FREE with each order. A hatch EVERY week all year. A breeds ducklings, Select and Exhibition grades. Catalogue free, stamps appreciated. ciated. Nabob Hatcheries, Dept. 15, Gambier, Ohio

#### CHICKS

Seven varieties, from excellent pure-bred stock, 100% live delivery guar-anteed. Parcel Post Prepaid. None better. Catalogue Free.

Lee's Poultry Farm & Hatchery, Edison, O.

English Strain S. C. W. Leghorns, and Sheppards Anconas. Stock, eggs and day old chicks. We have a few April hatched S. C. W. Leghorn cockerels left that we sell at reasonable prices. Place your orders early. Write for catalogue. BYRON CENTER POULTRY FARM, G. C. Keizer, Byron Center, Mich.

## Baby Chicks and Hatching Eggs

Thorough-Bred English White Leghorns, S. C. Reds, Barred Rocks. Big sturdy chicks, the kind that live and grow into fine producers, from the best laying strains obtainable. Priced right. 97 per cent delivery guaranteed. 1922 mating list and catalogue ready, Importer. Brummers Poultry Farm, Holland. Mich.

Baby Chicks \$15.00 per 100 and up Hatching eggs, \$1.50 per setting to \$15.00 per 100. We are listing if varieties of pure bred fowls; Chickens, Gegse, Ducks & Guineas, also breding stock. Send for prices and circular. Booking now for early delivery. CLINTON HATCHERY & POULTRY FARMS, Wilmington, Ohio.



# BABY CHICKS

We furnish Pure Bred Chicks of the finest quality from high egg-pro-ducing stock, Flocks built directly from lay-ing contest winners We have 17 breeds. Write for free illustrated catalog and price list. J.W. OSSEGE HATCHERY, Dept. 99 Glandorf, O.

Baby Chicks Anconas. From the best flocks in Michigan. Order now for spring delivery. Catalog free. SILVERWARD HATCHERY, Zeeland, Mich.

Day Old Chicks Mr. Leghorns Let us book your order for an early hatch. Catalogue and price list now Minorcas ready. H. H. Pierce, Jerome, Mich,

Plymouth Rocks, Buff Plymouth Rocks, White Jeghorns, Barred Rocks, Rhode Island Reds and White Wyandottes, 25 for \$5.25, 50 for \$10.00,100 for \$18.00. FENTON OHICKEN HATCHERY. Box 244, Fenton, Michigan

Big English White Leghorns large and some state of the sta

BABY CHICKS. All popular varieflocks at living prices. Write for circular and price list. DERR & ADAMS, Litchfield, Mich.

For Sale Ringlet B. R. Cockerels, both ligns and dark, bred from prize winners nicely barred, prices \$2.50 and \$5.00. E. T. MURPHY, Britton, Mich.

Ringlet Barred Rock Cockerels---bred from birds that lay, weigh and win, Robert Martin, R. 3, Woodland, Michigan

Rhode Island Reds R. C. Large fancy cockerels at \$3 each.
BURT SISSON, Imiay City, Mich.

STRICKS POULTRY FARM Hudsonville, Mich., R. R. 4. Box M. S. C. English White Leghorns, Official records from 9 hens of 208 to 244. Chicks and Eggs, Write for catalogue.

Single Comb Buff Leghorn baby chicks. Order now for spring delivery. Send for circular. Willard Webster. R. 2, Bath, Mich

S. C. B. Minorca A few choice Minorca Cockerels, great big fellows, sired by our 12 lb. cock.

A few choice Minorca Cockerels, great big fellows, sired by our 12 lb. cock.

Additional Poultry Ads. on Page 55

#### **BREEDERS' DIRECTORY**

Change of Copy or Cancellations must reach us Ten Days before date of publication



Bred in the Purple

e reward of pure breeding; the accomplish at of quality. Success has again contri-ed more laurels to the already remarkable ord of

# Imp. Edgar of Dalmeny

The Sire Supreme

At the International Live Stock Exposition, where gathers each year the clite of North American Cattledom to compete for the covetous awards, five more honors have been bestowed upon the "get" of Edgar of Dalmeny. You too may share these honors. A bull by this world famous sire will prove a most valuable asset to your herd. Write us today.

#### WILDWOOD FARMS ORION, MICHIGAN

W. E. SCRIPPS, Prop.

Sidney Smith, Supt,

REGISTERED Aberde en-Angus. Ten heifers, six buils from eight to fourteen months. Best of breeding, the growthy kind that make good. Reason-able. Inquire F. J. WILBER, Olio, Mich

#### FOR SALE

One Reg. Guernsey Bull Serviceable Age. Federal Accredit Herd. Farmer Prices.
GILMORE BROTHERS, Camden, Mich.

Registered Guernseys
We have a special proposition on your Bull for next
year that will interest you now.
J. M. WILLIAMS, North Adams, Mich.

GUERNSEYS Accredited Herd, 4bulls sold under 4 months old. Grandsons of ex-worlds champion A. A. cow and out of A. R. dams. Satisfaction guaranteed. G. W. and H. G. Ray. Albion, Mich.

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

For Sale Register Guernsey bull calves out of A. JOHN EBELS, R. 2, Holland, Mich.

For Sale, Reg. Guernsey Cows or heifers, prices right.

GEO. M. CRAWFORD, Holton, Mich.

#### Grandsons of King Of The Pontiacs Ready for Service

From 27 to 32-Lb. Dams

Sire:--King of the Pontiac Segis No. 169124 who is by King of the Pontiacs and from Hillsdale Segis, a 33 lb. daughter of King Segis.
No. 1 Dam:--32 lbs. butter and 620 lbs. milk in 7 days.
No. 2 Dam:--28.8 lbs. butter and 30 day record of 118 lbs. as Junior four year old.

No. 3 Dam: --- Granddaughter of Belle Korndyke, 2.77 lbs. butter and 640 lbs. milk in 7 days. No. 4 Dam:—A great cow, 765 lbs. of milk and 28 lbs. butter in 7 days.

butter in 7 days.

Other bulls out of good A. R. O. dams, with records from 18 to 20 lbs. butter as Junior 2 and 3 year old. All nicely marked and good individuals. Herd under Federal Supervision. OALL AND SEE THEM. For pedigree and information write Percy Nye, Mgr.

Priced Right for Quick Sale James B. Jones Farms, Romeo, Mich.

# HERE IS A GOOD ONE

BORN JUNE 2nd 1920 by MAPLECREST DE KOL HENGERVELD whose three sisters have each pro-duced over 1200 lbs. of butter in a year. TWO of them former WORLDS OHAMPIONS. Calf's dam by an own brother of a 1248 lb. cow. Write for pedigree. F. B. LAY, Kalamazoo, 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. ancestore Dam's records up to 30 lbs. Write for pedigrees and quotations, stating about age desired.

TRAVERSE CITY STATE HOSPITAL Traverse City, Mich.

## "Top Notch" Holsteins

A Fine Purchase For Some Good Breeder.
Bull born Sept. 21, 1920, from a good A. R. O daughter of a cow that produced 18,986 lbs. milk and 750.82 lbs. butter in one year, and is from a son of a 30 lb. cow that produced a 31 lb. cow, who in turn produced a 31 lb. cow.
His 6 nearest dams average 26 lbs. butter in 7 days.
Handsomely marked in solid colors—a little more black than white. A good individual.
Price \$125,00 f. o. b. Howell.
McPHERSON FARMS CO.
HOWELL, MICH.
All herds ander U. S. Supervision.

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

Reg. Holstein Bulls ready for service, sived by a 24 lb. Reg. Holstein Bulls grandson of King of the Pontiacs also a few reg. cows and heliofre; a carload of grade cows soon fresh. Priced right. The Long Lane Stock Farm, The Home of Michigans Best Eul. E. A. ROHLFS, Akron, Mich.

FOR SALE 4 Holstein Bull Calves Monroe, Mich. All registered and sired by Brook-side Waldorf Inks Prince Hed Boock 328-157.

# Dispersion Sale of Jerseys

Mr. H. C. Moore, Route 1, Durand, Mich. WED. JAN. 25, 1922

The Jersey Herd Consists of 67 Head, of The Imported Jap, Interested Prince Breeding. There are SEVEN Register of Merit cows with their daughters and grand-daughters. Their records run from 446 lbs. 11½ oz. to 626 lbs. 2 oz. butter in one year, and all but one made at two or three years of age.

The herd bulls are great lot, and the herd all through the kind that go on and make good for their new owners. The Farm and Equipment sells as a WHOLE, Liberal Terms on both Farm and Cattle.

Send for a Catalog.

Send for a Catalog. Col. D. L. Perry, Auct. Columbus, Ohio, THE J. V. COTTA CO., Sale Managers, Crawfordville, Ind.

## O. I. 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.

CRANDELL'S PRIZE HOGS, Cass City, Mich.

#### WINNWOOD HERD **Registered Holsteins**

It was through the daughters of Flint Maplecrest Boy that Sir Ormsby Skylark Burke
Our Junior Herd Sire produced the Junior Champion and Reserve Grand Champion Heifer, at the Michigan State Fair this year, in a class of 38.
His get won first in Calf Herd, also first in get of sire, in a class of 13.
A son of either of these great bulls will help the individuality and production of your herd.
We have bulls at dairymen's prices, and we also have bulls at the breeder's price, from dams with records up to 38 lbs. of butter in seven days, and 1168 lbs of butter in one year.
Ask us about a real bull, a Maplecrest or an Ormsby.

JOHN H. WINN, Inc., Rochester, Mich. Rochester, Mich.

# Cluny Stock Farm

JOHN H. WINN, Inc.,

Offers A High Class Bull at a Gift Price Born Jan. 24, 1920

A big fellow ready for service. Mostly white, and a good individual.

a good individual.

Sire, — A 30 lb. son of King Segis Pontiac Konigens whose daughters are making big Holstein history.

Dam, — A 24.9 lb. Jr. 4 yr. old daughter of Maplecrest Application Pontiac—whose dam made 35 lbs. butter in 7 days and 1344 lbs. in a year. Dam also produced 15,850 lbs. milk and 714 lbs. butter in 349 days. Next dam a 20 lb. Jr. 4 yr. old sister to three 1000 lb. cows. Next dam'a 22.79 lb. cow.

Where can you duplicate this bull and his yearly record backing at anything like the price? He is yours for \$150.00. Send for pedigree.

R. B. McPHERSON, Howell, Mich.

#### A BLUE RIBBON WINNER YOUNG BULL

On the 1921 Show Circuit For Sale at a low price. Out of an A R. O. granddaughter of Pontiac Korn-dyke. Sired by our SENIOR SHOW BULL, Model King Segis Glista 32.37 lbs.

GRAND RIVER STOCK FARMS,

Corey J. Spencer, Owner
Jackson, Michigan
Herd Under State and Federal Supervision

Deg. Holstein Friesian bulls sired by a gdson of King of the Fontiac's, ages from six months to one year old, nicely marked and good individuals priced to move them to make room for winter caives. Herd under Federal and State supervision, haven't had a reactor in the herd. Henry S. Rohlfs, R. I. Akron, Mich,

Holstein-Friesian pure-bred bull calves, also good herd. Prices are right. Larro Research Farm, Box A, North End, Detroit, Mich.

Bull Bargain, \$100 gets a light colored bull ready for service born Apr. 11, 1920, from 21.51 lb. dam, and sire whose six mearest dams av. 33.34 lbs. butter 7 days. Herd under state and Federal supervision. Oscar Wallin, Wiscogin Farm, Unionville, Mich.

Holstein Friesian heifer and bull calves, purebred price \$20 up. Splendid individuals and breeding. Write us your requirements. Browncroft Farms, McGraw, N. Y

Reg. Holstein Bulls ready for service sired by a 42 lb. bull. Priced to sell, also a few heifers and calves.

B. B. REAVY, Akron, Mich.

## ▲ Beef Producers! The World's Best Beef Michigan Produces

At The Lowest Cost.

Raise far better feeding cattle than you can buy. Grow Baby Beef when gains cost least in feed and labor. Avoid costly rail hauls with their shrink, bruises and loss.

SOTHAM'S EARLIRIPE BEEF CONTRACT Solves your problem—insures your success. A fair intelligent, satisfying system evolved from 87 years conscientious service to American Cattle Industry by three generations of Sothams. GET THE FACTS. Write now, or wire, Address.

T. F. B. SOTHAM & SON, (Cattle Business Established 1835) 250 Saint Clair, Michigan

HEREFORDS For Sale. Bulls. cow and heifers RALPH CALHOON, Bronson, Mich.

# Herefords

Repeaters, Beau Donalds, Fairfaxes, and Farmers represented in our herd. Repeater 173rd, a son of old Repeater, at head of herd. Both sexes and all ages for sale.

# ALLEN BROS., (Farm at Paw Paw, Mich.) Office 616 So. West St., Kalamazoo, Mich. Jersey Thoroughbreds

Few cows and bull calves. Best breeding line. Guaranteed. Tuberculin tested twice a year. If you have no money will take bankable note. E. W. Vasavst, 509 Free Press Building, Detroit, Mich., Main 1267.

Hill Haven Stock Farm Shortage of feed compels me Sired by grandson of Sophie 18th of Hood Farm. Also a few young buils and buil calves out of above owe and sired by a line bred Flying Fox bull. Herd in process of accredation. Prices reasonable.

F. CHAPMAN, Vandalia, Mich.

BUTTER BRED JERSEY BULLS
FOR SALE
FOR SALE
Silver Creek. Allegan County. Michigan.

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

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

#### WELL 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, Box D, Tecumseh, Michigan

# Richland Shorthorns

Notice:—Shorthorn Sale M. A. C. Jan. 13th '22. We shall contribute five Heifers and five Bulls. Sired by some of the leading Bulls of the Breed. Attend this Sale and buy cattle in keeping with the times. C. H. PRESCOTT & SONS, Tawas City, Mich.

Francisco Farm Shorthorns
and BIG TYPE POLAND CHINAS
Now offering:—Three bulls ready for service. Mastodon, Clansman, Emancipator blood in gilts bred for spring farrow, See them.
POPE BROS. CO., Mt. Pleasant, Mich

#### The Maple's Shorthorns Kirk Levington Lad, by imported Hartforth Welfare, in service. Bulls and heifers for sale.

J. V. Wise, Gobleville, Mich.

BUY SHORTHORNS of Central Michi-Breeders' Association at farmers' prices. Write for sale list to M. E. Miller, Sec'y, Greenville, Mich

Milking Shorthorns, accredited herds, males and females, low prices. Davidson and Hall, Beland and Beland, Tecumseh, Mich,

Shorthorns at bargains. Cows and young buils ready Poland China pigs. Bobert Neve, Pierson, Mich.

Milking Shorthorns of best Bates breeding, bulls, cows and heifers for sale.
E. H. KURTZ, Mason, Mich SHORTHORNS. Two 4 mo. old bull calves of White-hall Sultan Strain and a few young heifers. Priced very reasonable. J. A. Wilk & Son, Alma, Mich.

HOGS

**EVERY'S BIG BERKSHIRES** Choice boars. Sows bred or open. Satisfaction guaranteed. W. H. EVERY, Manchester, Mich.

Duroc Jerseys A few extra good fall boars, and a choice lot of spring boars of the heavy boned type popular blood lines at reasonable prices, DRODT & BERNS. Monroe, Mich.

DUROC JERSEYS: A few chol bred gilts for sale. OAREY U. EDMONDS, Hastings, Michael Branch Bra

#### ASKED TO ESTABLISH COMMIS-SION COMPANY AT DETROIT.

THE board of directors of the National Live Stock Producers' Association met at Chicago, December 28-30. Urgent requests were received to establish terminal commission companies for the handling of live sotck shipped by cooperative associations at several points, including Detroit and Buffalo. The board will investigate the conditions surrounding these markets and, if the business of the markets and the attitude of the producers patronizing them warrant, the association will proceed at once to organize terminal cooperatives.

#### HAVE AMBITIOUS PROGRAM.

THE next meeting of the board of directors of the National Live Stock Producers' Association will be held in Chicago on February 14, 1922. The association proposes to market the live stock of the nation cooperatively according to the laws of suppry and demand and in such a manner as to avoid the seasonal glutting of the market and the corresponding depression in prices. Stockers and feeders are to be purchased by cooperative companies which will have the best interests of the farmers at heart.

#### COW-TESTING RAISES MILK YIELD.

C OWS owned by the members of one cow-testing association show an average production of 5,595 pounds of milk and 280 pounds of butter-fat for the past year. The average cow in this association gave 117 gallons more milk per year than the average in the state.

#### WHEN TO CUT ALFALFA.

THE time to harvest alfalfa for hay is always of interest to the practical farmer. In this connection some interesting results have just been published. It has been found that two cuttings taken when the alfalfa was in full bloom yielded as large a quantity as three cuttings taken when the plants were at the tenth bloom stage. However, the quality of the hay was superior when the three cuttings were

#### FOUR-HORSE HITCH FOR PLOW-ING.

THE hitch illustrated in the December 24 issue of the Michigan Farmer might do to use on a ditcher or for heavy road work, but is altogether too clumsy for a gang plow.

The essentials of a good hitch for a plow is compactness and lightness with sufficient strength. The hitch mentioned would be so heavy and longgeared that the plow would tend to ride on its nose and the tongue would have to be extra long. Then I do not think it wise to put one horse on the plowed land. The handicap would tire him out. What is more, if this was done, the plow would not cut two furrows as the pull would be such as to bring the first plow in the old furrow.

The fact is four good-sized horses can walk abreast on a twenty-eight or thirty-inch singletree with the ends nearly touching. No clevises or rings should be used. The two-horse evener should be connected to the four-horse one with strap irons so bent as to allow the right two-horse evener to saw under and the left one to saw over the four-horse evener. The horse on the right walks in the furrow and the other three on the land, when using a right-hand plow and the reverse with the left-hand plow.-F. L. Davis.

Says Sam: It's a question this year whether the farmer is the backbone of the nation, or the spare-ribs.

#### MICHIGAN LIVE STOCK EXCHANGE MEETING.

THE members of the board of the Michigan Live Stock Exchange held their regular meeting in Lansing, on Thursday, January 5. All members of the board were present, except two.

Among the questions discussed, and acted on, was the nomination of E. A. Beamer, of Blissfield, to represent the exchange on the board of the Michigan Farm Bureau.

It was decided that the members of the board of the exchange would meet with similar boards from Ohio and Indiana the last part of this month, for the purpose of perfecting plans to establish commission houses at the terminals to which the associations of these states ship stock.

It was unanimously voted to send a plea for help to prevent, and also a protest to our members of congress against taking away from the Department of Agriculture, the Bureau of Markets and the Forest Service; as both of these proposed changes is a direct blow to the farmer.

Mr. Munson, vice-president of the exchange, brought the per car charge for his associations, for the month of September, October, November and December, \$160.65, the largest amount received from one association at one time during the year. Most of the associations remit each month.

The annual meeting of the exchange is to be held in Lansing the sixteenth of February, at the city hall.

This board meeting finds the exchange in very good condition considering the unsettled condition of the markets, and the prevailing low price of stock, during the summer and fall.

#### WHY NOT?

MR. T. F. MARSTON, secretary of the Northeastern Michigan Development Bureau, who actively operates a large dairy farm near Bay City, sees no reason why a horse should not have a drink when wanted as well as a cow, so he has installed water bowls for his horses, the same as for the cows except that whereas the latter have a bowl for two cows, each horse has a bowl of its own. Mr. Marston states' the time saved by the men in not having to wait while watering horses will pay for these buckets several times over in a year. There may be some objection to the practice but at any rate the horses seem to enjoy it. The cows have been so fitted out for the past thirty years.

#### DUROC RECORD RATES CHANGED.

THE American Association of Duroc Breeders has made a new rule for recording, effective January 1, 1922. This change affects members only. Members can now record animals under one year old for seventy-five cents. The price for animals under one year and two years is one dollar. The rate of \$1.50 to non-members is still in force. The directors hope to get the breeders in the habit of recording their animals at an earlier age and encourage them to record all animals they sell as breeders. The courts have ruled that the pedigree is a part of the transaction in the sale of an animal for breeding purposes and there is no good reason why a registry should not go to the purchaser of every animal bought for that purpose. There will be less cause for complaint and less trouble for the buyer, and it will be the means of getting the beginner to keep up his records.

#### PRIZES FOR MICHIGAN.

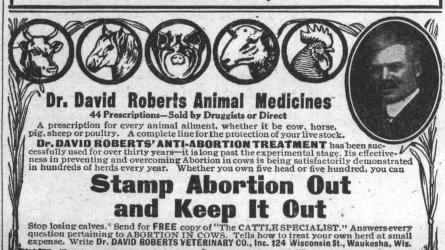
THE National Spotted Association has just held their annual meeting and among other things have allotted \$150 for prizes to swine of this breed shown at the Michigan State Fair this coming fall.

-if you have not yet shipped to Fouke

Split your next shipment, skin for skin, grade for grade, send one half to the house you've been shipping to, and the other half to Fouke at once. You will get more money for the half you ship to Fouke, you can bet your bottom dollar on that.

> (We believe that we are paying fur shippers 20%to 25% more for furs than any other house in the country. We want you for a regular shipper.)

R CO. BUILDING ST.LOUIS, MO.



HOGS

## **Brookwater Duroc Jerseys**

Bred Gilts for March and April farrow. Bred to Big Bone Giant Sensation, Panama Special 55th and Brookwater Demonstrator 26th. Write us for description and prices. Or come and

BROOKWATER FARM, H. W. Mumford, Owner J. B. Andrews, Mgr.

Duroc Service Boars \$20 to \$40. Bred sows and gilts \$30 to \$50, Fall pigs \$10 to \$15. All registered or eligible. We have pigs \$10 to \$15. All registered or eligible. We have one of the largest and best herds in state. Ample opportunity for selection. MICHIGANA FARM, Pavilion. Mich., Kalamazoo County.

Pure-Bred Duroc Jersey Hogs; we usually ages for sale. Reasonable prices. Larro Research Farm, Box A, North End, Detroit, Mich.



Spring pigs by Walt's Orion, First Sr. Yearling Phillips Bros, Riga, Mich.

Durocs Herd headed by Great King Orion Col. assisted by a good son of King Orion Fancy Jr HARRY FOWLER. Sturgis, Mich.

## **Duroc Jersey Swine**

Breeding stock for sale at all times at reasonable prices. If in need of a high class boar, or sow any age write, or better, come to farm Best of Blood line and we guarantee you satisfaction. Herd boars, Panama Special 11th and Home Farm Wonder. Booking order for fall pigs at \$15 Thos. Underhill & Son, Salem, Mich.

DUROC SOWS and gilts bred to Jacks Cherry Orion King No. 189259 Son of the \$10.000 boar owned by Longview Farm. Le Sumit. Mo. also young boars ready for service cut of good sows. Apply THE JENNINGS FARM, Balley, Mich.

J. CARL JEWETT, Mason, Mason

Woodlawn Farm Duroc hogs are from select breed-ing stock, well mated for size, type and color-Herd boars, sows and pigs, will ship C.O.D. and furn-ish Reg. certificate. W. E. Bartley, Alma, Mich.

# **DUROC JERSEYS**

spring boars that will improve yo ur hogs, of Orion Cherry King. Col. and Pathfinder breeding, at rea-sonable prices. Write us your wants. Bred sows and gilts all sold W. C. TAYLOR, ilan, Mich.

W EST View Duroc Farm offers spring boars from Home Farm Tippy Orion and Pathinder Prince, with big bone and type. Ready for service, sows. fall glits and spring glits with quality. Write or come and see them. ALBERT EBERSOLE, Plymouth, Mich.

DUROC-JERSEYS A few good sows. E. D. HEYDENBERK, Wayland, Mich.

# **Brookwater Duroc Jerseys**

Fall Boar Pigs

A chance to get one of the best and grow him out yourself. Prices \$25.00 to \$50.00. Write us or come to the farm.

BROOKWATER FARM, Ann Arber, Mich. H. W. Mumford, Owner, J. B. Andrews, Mgr.

# BIG TYPE CHESTER WHITES

The prize winner kind from the best prize winner bloodlines. Early developers, ready for market at six months old. I have started more breeders on the road to success than any man living. I want to place one hog in each community to advertise my herd, Write for agency and my plan. G. S. BENJAMIN, R. F. D. 10, Portland, Mich.

Chester Whites, bred gilts and fall pigs of excel-faction guaranteed. F. W. Alexander, Vassar, Mich.

O. I. C's. Aug. and Sept. pigs and bred clover Leaf STOCK FARM. Monroe, Mich.

Mason, Mich.

O. I. C's. April and May boars at reasonable prices. Weber Bros., 10 Mi. and Ridge Rds., Royal Oak, Mich.

0.1.6. Spring boars and gilts no akin. We breed and on the Grand Champion Boar at West Mich. State Fair. We ship C.O.D. and Reg. free GEO. M. WELTON & SON, Alto. Mich.

O. I. C's, Boars and Gilts from April and and quality guaranteed. Ship C. O. D. Elm Front Stock Farm, WILL THORMAN, Dryden, Mich.

O. I. C. & Chester White Swine STRICTLY BIG TYPE WITH QUALITY. Have a few good service boars left that I will sell CHEAP. Also a fine lot of Gilts, bred for Spring farrow. They cree of our Prize winning blood lines and priced to sell. Newman's Stock Farm. R. 4. Marlette, Mich

O.I.C's. 4 last spring boars and 15 gilts, wt. 250 to Also last fall pigs, good thrifty stock. Registered free. 4 mile west of Deopt. Citzs. Phone. OTTO B. SCHULZE, Nashville, Mich.

O. I. C's, choice gilts bred for March and April farrow.
A. J. BARKER & SON, Belmont, Mich.

For Sale. O. I. C. Gilts bred for March and April farrow (at a reasonable price. H. W. MANN, Dansville, Mich

O.I. C's Apr. and Aug. boars all sold, one spring and one July gilt left, two Sept. male pigs. Milo H. Peterson, R. 2, Ionia, Mich. "Elmhurst Farm"

#### LARGE TYPE P. C.

Largest herd of individuals in Mich. Oome and see, compare, and be convinced, expenses paid if not as represented. Boars and early gits all sold. A few late gitts, will sell open or hold and breed for late farrow.

W. E. LIVINGSTON.

Parma, Mich,

LEONARD'S Big Type P. C. Herd headed by Leon-tards Liberator 458,285, the tallest, longest and heav-iest boned pig for his age in Mich. Call or write, stock in season. Fall pigs at Bargair Prices. E. R. LEONARD, St. Louis, Mich.

#### Big Type Poland China

fall pigs either sex, sired by Clansman Buster and by Hover's Giant. Also gilts bred for spring farrow to Hover's Liberator. Priced to sell, satisfaction guar-anteed. DORUS HOVER, Akron, Mich.

Big Type P. C. some very choice boars double immune, out 1100 lb. sire and mammoth sows from Iowa's greatest herds. E.J. Mathewson, Burr Oak, Mich. One large type Poland China boar eight months with him. Ward W. Dunston, Clarkston, Mich.

The Thumb Herd Big Type Poland 1 am offering barrains in Poland Chinas. For 30 days 1 am offering barrains in Poland Chinas. My herd boar which won five firsts grand champion at Bay City, 2nd at State Fair in 1920. Spring boars, gilts and pigs, all ages by him. Peace and Plenty and Tuscola Lad. Out of Miss Smooth Jumbo, Model Magnet, Orange Maid and others. Largest herd of prizewinners in the thumb, sold on approval. Write your wants.

E. M. ORDWAY. Millington, Act.

E. M. ORDWAY, Millington, 'ich

Fire Sale is a place for bargains. We can undersell any fire sale on earth. We are making a special price on Big Type Poland China Boars Sired in the purple. We can furnish just what you want. Over 100 head on hand.

Bell Phone. JNO C BUTLER, Portland, Mich.

#### L.T.P.C. \$15, \$20 & \$25

We have a fine lot of fall pigs sired by Harts Black Price and Right Kind Clan. HART, FULCHER and CLINE, address F. T. Hart, St. Louis, Mich.

# Large Type Poland Chinas

Spring boars all sold. Fall pigs at bargain prices, Bred gilts held for public sale. A. A. FELDKAMP, R. 2. Manchester, Mich.

L. S. P. C.

1 yearling herd boar as good as you ever saw, spring boars by Nov. lst. You can't beat the price nor the breeding. H. O. SWARTZ, Schoolcraft, Mich.

Big type Poland China boars and gilts of April farrow, also one yearling boar that is hard to beat. Prices right. CLYDE FISHER, R. 3, St. Louis, Mich.

BIG TYPE Poland Chinas, leading strains ages, and bred sows and gilts.
G. A. BAUMGARDNER, R. 2. Middleville, Mich.

L.T.P.C. Model spring boars and gilts now ready to ship. Something good at a right price, w. J. HAGELSHAW, Augusta, wich.

Big type P.C.Spring boars and choice fall pigs, either sex. Sired by Big Bob Mastodon. Priced low guarteed.

O. E. Garnant, Eaton Rapids, Mich,

Poland China gilts sired by a 900 lb two years old and bred to a son of Mich. 1921 Grand Champion, ROBERT MARTIN, R. 3, Woodland, Mich.

Hampshires Bred gilts now ready to ship with JOHN W. SNYDER, R. 4, St. Johns, Mich.

#### YORKSHIRE BOARS ready for service. WATERMAN & WATERMAN, Packard Rd. Ann Arbor, Mich.

SHEEP

Shropshires 7 yearling rams also ram and ewe lambs. Buttar and Senator Bibby breeding. C. J. Thompson, Rockford, Mich.

# A Real Bargain at Kope Kon Farms

We offer 40 big healthy yearling Shropshire and Hampshire Rams all registered at \$25,00 each Come or write while the picking is good.
S. L. WING,
Coldwater, Mich.

Registered Shropshire Rams Priced to sell. Dan Booher, R. 4, Evart, ic

Reg. Shropshire Rams and ewes all ages. Quality ship on approval. H. F. Mouser, R. 6, Ithaca, Mich

Shropshires—Yearling and lamb rams with quality, Sired by an imported Winton ram. Write for prices and description. W.B. McQuillan, Howell, Mich.

Ten Aged Registered Delaine ewes and ten ewe lambs for sale.
CALHOON BROS. Bronson, Mich

HORSES

FOR SALE 2 Reg. Percheron Stallions and a car of Grade Draft Colts. CHAS. BRAY, Okemos, Mich.



#### GRAIN QUOTATIONS

Tuesday, January 10.

Wheat.

Detroit.—Cash No. 2 red \$1.16; No. mixed and No. 2 white \$1.13; May

Chicago.—Cash No. 2 red \$1.15%; No. 1 hard \$1.11%; May \$1.08%. Toledo.—Cash \$1.15; May \$1.19.

Corn.

Detroit.—Old Cash No. 2 yellow at 55½c; No. 3 yellow 54½c; new yellow Cash No. 3, 51c; No. 4, 48½c.

Chicago.—No. 2 mixed at 48@48½c; No. 2 yellow 48½@49c.

Oats.

Detroit.—Cash No. 2 white 42c; No. 3 white 39@40c; No. 4, 34½@37½c.
Chicago.—No. 2 white 36½@37½c;
No. 3 white 33¾@36c.

Beans. Detroit.—Immediate and prompt

Detroit.—Immediate and prompt shipment \$4.30 per cwt.
Chicago.—Choice to fancy handpicked Michigan beans at \$4.60@4.75; red kidney beans \$6.75@7.50.
New York.—The market is steady.
Choice pea at \$5.15@5.20; do medium \$5; red kidney \$6.50@6.75.

Rye.

Detroit.—Cash No. 2, 84c.
Chicago.—79c.

Seeds. Detroit.—Prime red clover, cash at \$14; alsike \$11.40; timothy \$3.25.
Toledo.—Prime red clover, cash at \$13.80; alsike \$11.80; timothy \$3.20.

Hay.

Detroit.—No. 1 timothy at \$19@20; standard and light mixed at \$18@19; No. 2 timothy \$17@18; No. 1 clover mixed \$16@17; rye straw \$13.50@14; wheat and oat straw \$12@13.50 per ten in carlots. ton in carlots.

Feeds. Detroit.—Bran \$30; standard middlings at \$30; fine middlings at \$30; cracked corn \$27.50; coarse cornmeal \$25; chop \$22.50 per ton in 100-lb.

#### WHEAT

Financial conditions again came to The fore in the grain market last week. The failure of a large grain firm and other disturbances led to a break in values. Part of the loss was recovered but confidence has not fully returned and influences of this character may continue for some time. Drouth still and influences of this character may continue for some time. Drouth still prevails over much of the southwest which has about half the total acreage and the average condition there is 61 per cent as shown by the official report. The crop can recover materially but low condition at the start results on the average in a low yield per acre and winter-kill above normal. Argen-tine wheat for January and February shipment is being offered to Europe at prices eight to ten cents per bushel cheaper than American hard winter via the Gulf. Europe is only buying on a hand to mouth basis at present so this may force our market lower.

CORN

Financial conditions caused a break in the corn market but otherwise priges show stability at the prevailing level. The Russian relief purchases amount to nearly 5,000,000 bushels and it is reported that about 750,000 tons of grain are to be taken for this purpose, most of which will be corn. Export sales to other European countries are rather liberal. Domestic demand also remains satisfactory. Lower freight rates thus far have failed to increase the movement from the countries of the try materially although receipts are slightly larger than before. A good deal ntracted for to b ped after freight rates were reduced, so that if the movement should enlarge much of it will be provided for in ad-

#### OATS

The first of the year has brought an increase in the eastern and southern demand for oats so that the largest sales in a long while have been consummated. Exporters have made inquiries also. The visible supply is decreasing rather slowly and values are unlikely to enhance a great deal as long as the demand can be easily satisfied from arrivals at primaries and small withdrawals from the supply already at terminals.

#### SEEDS

the principal markets are decreasing. Prices usually advance during the early spring months when seeding starts, but the price of red clover is slightly out of line with farm grains and other seeds, particularly alsike and alfalfa so that further gains may be small. To what extent the tendency of farmers to plant legumes in place of corn and oats next spring will increase the demand for cloverseed is still proble-matical. Although the foreign crop was small, moderate quantities are being imported into this country.

#### **FEEDS**

Increased offerings of wheat feeds especially from the southwest have weakened the market slightly, while hominy, gluten feed, cottonseed meal and linseed meal are also quoted lower than a week ago. Demand for tankage remains exceptional and demand for other feeds fairly active in the light of prevailing economic conditions.

#### HAY

Inactivity describes the hay markets as receipts are light and demand is limited to immediate needs. Country loadings in some surplus sections are said to be increasing. The course of prices depends on whether lower freight rates increase demand as much as it may increase the supply at distributing markets.

#### POULTRY AND EGGS

Although receipts of eggs continue heavy for this season of the year, cold weather stimulated demand and made the market more firm. Prices are 10 to 15 cents lower than at the high point of the season and have fallen enough to stimulate consumption. According to the preliminary government reports cold storage holdings in the United States on January 1 were 904, 000 cases compared with 408,000 cases on the same date last year and a five-year January 1 average of 982,000 cases. Poultry prices also are showing

more strength due to a sharp reduction

more strength due to a sharp reduction in receipts at the leading markets. Chicago.—Eggs, fresh firsts 39½ c a dozen; ordinaries 34@35c. Poultry, hens 28c; springs 26c; ducks 28c; geese 22c; turkeys 35c.

Detroit.—Eggs, fresh sandled and graded 36½@38c. Poultry springs 28c a pound; large fat hens 28@30c; medium hens 26@27c; old roosters 15c; geese 20c; ducks 30@32c; turkeys 35c.

#### BUTTER

Butter markets continue weak as re-ceipts and stocks are large while de-mand failed to expand. Top scores ceipts and stocks are large while demand failed to expand. Top scores were more plentiful and lost ground as rapidly as the undergrades. Production is undoubtedly heavy. The report of the American Creamery Butter Manufacturers' Association for the week ending December 31 shows an increase of 48.4 per cent over the same week of 1920. Consumption is above the level of last year but has not increased as much as market supply. Foreign as much as market supply. Foreign butter arrivals were less burdensome. At the close of the week an upturn appeared probable as holders were less disposed to sell at the lower level of values which also were more attractive to buyers. Prices for 92-score fresh butter were:

Chicago 35c; New York 36½c. At Detroit fresh creamery in tubs was quoted at 32@33c.

#### WOOL

Boston at which about 8,000,000 pounds mostly of low grade wools were sold, prices ranged from 20 to 25 per cent higher than at the December auction. Dealers were the chief buyers although moderate quantities went to manufacturers. The woolen goods trade still appears uncertain with minor interests waiting for the announcement of the scale of prices upon its new offerings scale of prices upon its new offerings by the American Woolen Company, the dominant factor in the trade. It is estimated that Boston holds only about

with about 139,000,000 pounds exclusive of government-owned wools at this time last year. The large surplus of wools in sight twenty months ago has disappeared much more rapidly than was expected. Government holdings at this time last year were about 100,000,000 pounds, but have now been reduced to about 11,000,000 pounds. Prices generally are 25 to 50 per cent higher than last spring.

#### **BEANS**

Fairly good trade reported in some quarters but market generally quiet and unsettled. Pea beans close and unsettled. Mediums irregular; some holders asking \$5.25 but few sales above \$5. White kidneys dull and easy; red kidneys weak.

#### **POTATOES**

After a period of weakness, potato markets turned upward in the latter half of last week. Northern sacked round whites are bringing \$1,75@1.90 at shipping points and \$1.85@2.10 in consuming markets. Total shipments for the season up to the end of December exceeded those of the same period in 1920 by over 15,000 cars.

#### **APPLES**

The movement of apples for the season up to end of December amounts to 45,705 cars of boxed apples and 22,979 cars of barreled apples compared with 28,318 and 57,850 cars respectively for the same period of 1920. Prices show little change, with Baldwins quoted at \$6.50@8 per barrel wholesale in consuming markets.

#### GRAND RAPIDS

The potato market in Grand Rapids and western Michigan this week continued to work higher with the demand steadily picking up. Shippers were paying from \$1.25@1.50 per cwt. Retailers are beginning to seek stocks and supplies held by consumers are reand supplies held by consumers are re-ported running low. The hog market is showing stronger tendencies since the bulk of the fall and early winter rum has been marketed. Lambs are also higher. Quotations are:

Vegetables.—Potatoes at \$1.20@1.50 cwt; dry onions \$4@5.50 cwt; celery \$1.50 box; carrots, parsnips and rutabagas \$1@1.25 bu; leaf lettuce (hothouse) 16c lb.

Live Stock.—Hogs, live at \$6@7.50; dressed \$9@10.50; cattle, prime heifers and steers, live \$5.50@6; cows at \$2.50@4; bulls \$3.50; sheep, ewes \$2@4; lambs \$7@8.

Grain.—Wheat, No. 1 red \$1.07 per bu; No. 1 white \$1.04; rye 65c; corn 60c; oats 40c; barley 80c; buckwheat \$1.35 per cwt; beans, white \$3.75 per cwt; red kidney \$5 cwt.

Fruit.—Northern Spy apples at \$2@ 3.50 bu; Ben Davis \$1.65; other varieties \$2@3 bu.

Greenville.—Potato market is higher; No. 1 white \$1.30@1.70 per cwt; beans, white \$3.75 per cwt; red kidney \$5@5.50 cwt.

#### DETROIT CITY MARKET

About the only easy line in the produce market is found in dairy produce market is found in fairy produce are coming freely from duce market is found in dairy products. Eggs are coming freely from the south and west and the production in Michigan is increasing. Demand is fair and prices are lower. Consumers are taking butter liberally. Practically everything else is firm. Business at the beginning of the week was not active in any line. Pour large was seened. the beginning of the week was not active in any line. Poultry was scarcely moving. The supply was short, but so was the demand. Farmers' deliveries were fair, but receipts by rail were not large. Potatoes, onions, cabbages and other important lines in the vegetable list, were firm and the same tone extended to fruits.

list were firm and the same tone extended to fruits.

Apples.—Good winter fruit \$3.50@4.

Celery.—Michigan 40@50c per dozen and \$1.25@1.50 per box.

Cabbage.—\$1.75@2 per bushel.

Onions.—Eastern \$7@7.25; Indiana \$6.50@7 per 100-lb sack.

Potatoes.—Michigan \$3.25@3.50 per 150-lb sack. 150-lb sack.

#### **ONIONS**

A reduction of nearly fifty per cent in the onion crop has resulted in a decrease of about 5,600 cars in the movement for the season up to December 31. Prices have heen rising and are at the high point of the season with middlewestern red varieties quoted at \$6@6.50 per 100 pounds.

# Live Stock Market Service

Wednesday, January 11.

#### DETROIT

Cattle.

Receipts 318. Market ver	y stron	ıg.
Best heavy steers\$	7.00@	8.00
Best handy wt bu steers	6.75@	7.00
Mixed steers and heifers	5.50@	6.50
Handy light butchers	5.50@	6.25
Light butchers	4.50@	5.25
Best cows	5.00@	6.00
Butcher cows	4.00@	4.75
Common cows	3.00@	3.50
Canners	2.25@	2.75
Best light weight bulls	4.75@	5.50
Bologna bulls	4.00@	4.75
Stock bulls	3.50@	4.50
Feeders	5.50@	6.25
Stockers	4.25@	5.50
Milkers and springers	40@	75

Receipts		steady.
Best	 	\$11.50@12.00

#### Hogs.

Receipts 1.569.	Market	25c hig	gher.
Mixed hogs	\$	8.00@	8.50
Pigs and lights		8.50@	
Heavies		7.25@	7.50

#### Sheep and Lambs.

Receipts 1,841.	Market is 25@50C
higher.	
Best lambs	\$13.00@13.75
Fair lambs	
Light to common	
Fair to good sheep	
Culls and common	

#### **CHICAGO**

#### Hogs.

Hogs.

Estimated receipts today are 22,000; holdover 9,064. Market active and 15 @25c higher. Bulk of sales \$7.50@8; tops \$8.25; heavy 250 lbs up \$7.50@7.75; medium 200 to 250 lbs \$7.70@8; light 150 to 200 lbs \$7.90@8.25; light lights 130 to 150 lbs \$8@8.35; heavy packing sows 250 lbs up smooth \$6.35@7; packing sows 200 lbs up rough \$6@6.40; pigs 130 lbs down \$7.75@8.35.

Seed markets remained firm as re-ceipts are light and stocks at some of Market 15@25c higher. Beef steers

medium and heavy weight 1100 lbs up choice and prime \$9@10; do medium and good \$7.15@9.10; do common \$6.25@7.15; light weight 1100 lbs down good and choice \$8.25@10; do common and medium \$6@8.35; butcher cattle heifers \$4@8.25; cows at \$3.50@6.40; bulls bologna and beef \$3.90@6; canners and cutters cows and heifers at \$2.35@3.50; do canner steers \$3.25@4.25; veal calves light and handyweight \$6.25@9.25; feeder steers \$5.25@6.65; \$6.25@9.25; feeder steers \$5.25@6.65; stocker steers \$4.50@6.50; stocker cows and heifers \$3@4.75.

Sheep and Lambs.

Estimated receipts today are 12,000. Market strong to 25c higher. Lambs 84 lbs down \$11.75@13; do culls and common \$9.25@11.50; spring lambs at \$9.25@11.50; ewes medium, good and choice \$4.75@7.25; ewes cull and common \$2.50@15.50; mon \$2.50@4.50; yearling wethers medium, good and choice \$9.75@11.50.

#### **BUFFALO**

Cattle.

Receipts two cars. Market is steady. Choice to prime shipping steers at \$7.50@8; good to choice shipping steers \$7@7.50; light native yearlings, good quality \$9@10; best handy steers \$6.25@6.50; fair to good \$6@6.25; handy steers and heifers \$6@6.25; western heifers \$5.50@ ers \$5.50@6.25, western hehers \$5.50@6.50; light Michigan butchering heifers \$5.50@6; best fat cows \$4.50@5; cutters \$3@3.50; canners \$2.25@2.50; best heavy bulls \$4.50@5; heavy bologna bulls \$4.25@4.50; common bulls at \$3.50@4; best feeders 700 to 800 lbs \$5.50@6; medium feeders at \$4.50@5; stockers good \$4.50@5; light common \$3.50@4; best milkers and springers \$75@85; mediums \$30@40.

Calves, tops \$12.50; fair to good \$8 @11; grassers \$3.50@5.50.

#### Hogs.

Receipts 15 cars. Market is lower. Heavy \$8@8.50; yorkers \$9@9.25; pigs \$9@9.25. Sheep and Lambs.

Receipts one car. Market steady; top lambs \$13.75; yearlings \$10@11.50; wethers \$7@7.50; ewes \$6@6.50.

# Veterinary.

CONDUCTED BY DR. W. C. FAIR.

Advice through this column is given free to our subscrib-ers. Letters should state fully the history and symptoms of each case and give, name and address of the writer. Initials only are published. When a reply by mail is requested the service becomes private practice and \$1 must be enclosed.

Enlarged Glands .- Have a cow that Enlarged Glands.—Have a cow that came fresh last October. She has numerous small hard bunches on lower portion of udder and on teats. Several years ago her mother suffered from a similar ailment. I thought she might have been stung by bees. A. M. L., Fennville, Mich.—Paint bunches with tincture of iodine every day or two and they will soon disappear.

shy Breeder.—We have a cow seven or eight years old that came fresh last July, since then she has been in heat several times, bred each time, but fails to get with calf. O. H. K., Wilson, Mich.—Dissolve one-quarter pound of bicarbonate of soda in one-half gallon of clean tepid water and flush vagina two or three hours before she is served and if you have leisure time, treat her daily for a week before she comes in heat.

Indigestion—Worms.—Have a three-months-old pig that is not thriving. She coughs, is some lame, has had diarrhea, but have it checked; have raised her by hand. I also have another three-weeks-old pig which is not thriving; the mate weighs forty pounds and is growing fine. W. N. R., Fremont, Ind.—Mix equal parts of fluid extract of spigelia and fluid extract of senna together and give some to pig twice a day until you believe the worms are destroyed. One-half of a teasponful is perhaps dose enough. Also give fluid extract of gentian three times a fluid extract of gentian three times a day as a tonic. One-half a teaspoonful is dose enough.

Unthrifty Mares—Worms.—I have a pair of mares that raised colts last summer. Both stock in hind legs and refuse to lay on flesh. I also have another mare which is troubled with other mare which is troubled with worms; her coat is rough and she is thin. G. M., Farvell, Mich.—Perhaps you are not feeding them a fat-making ration, or you may not be feeding them enough grain, and do you keep them in a warm, well-ventilated stable? Give each mare forty drops of fluid extract of nux vomica, one dram of fluid extract of cinchona, and three drams of Fowler's solution at a dose in ground feed or in drinking water. Give your other mare one dram of santonin, thirty grains of calomel and one-half ounce of powdered gentian at a dose in soft of powdered gentian at a dose in soft feed daily for six days.

#### A CORRECTION.

On the back cover of our issue of December 31, 1921, a typographical error was made in quóting the five-year subscription rate of the Michigan Farmer. This rate, which is \$3.00 was there quoted at \$2.00. No subscriptions will be accepted at the erroneous rate after this issue reaches the reader.



SPRAY YOUR FRUIT TREES duced AND VINES estroy the fungi and worms; be sur of larger yields of perfect fruit. Stahl's Excelsior Stahl's Excelsior
Spraying Outfit
Prepared Mixtures
roused in large orchards everywhere;
ighly endorsed by successful growres for thirty-five years. 20 models,
ower or hand types. Write for free
atalog containing full treatise on
praying fruit and vegetables.
WM. STAHL SPRAYER CO.
Box 728 Quincy, III.





Before you buy any harness let me send you this won-derful "No-Buckle Harness" on thirty days free trial. derful "No-Buckle Harness" on thirty days free trial. Post yourself on the latest and best harness to buy. Walsh No-Buckle Harness needs no patching, no mending, no repair bills because it has no buckles to tear and no rings to wear the straps. Buckles cut and tear straps, rings wear straps in two. Examine your buckle harness and prove this. You will find more than one hundred places, where buckles and rings are wearing it. The Walsh No-Buckle Harness is a proven success on thousands of farms—in use over eight years.

# Days FREE Trial On Your Own Team

Try Walsh No-Buckle Harness on your team for thirty days. No obligations on your part. Send no money. Look at it. Examine it. If you are not convinced that it is the handiest, strongest and best harness you ever saw, pack it up and send it back. If you like it, keep it, pay cash or take six months to pay. Cost less than buckle harness of same grade, yet outwears two sets of the best buckle harness. Has every improvement, rust-proof hardware, improved hames, adjustable strap holders, etc. etc. Saves repairs, gives double wear, fits any size horse perfectly. Made in all styles, back pads, side backers, breechingless, etc.

ORDER NOW-Six Months to Pay. To secure early orders and avoid congestion in factory later, we make very attractive prices and terms now. Write today for free illustrated book, prices, easy terms, and thirty day free trial offer. Also how to earn money showing Walsh No-Buckle Harness to your neighbors.

JAMES M. WALSH, President

WALSH HARNESS COMPANY

Dept. W-3 137 Keefe Ave., Milwaukee, Wis.

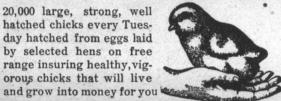
#### Send No Money-Mail Coupon

James M. Walsh, Pres., Walsh Harness Co., Dept. W-3
Milwaukee, Wis.
Send me free of charge Walsh Harness Book, free trial offer and liberal long time terms on Walsh Harness.

hatched chicks every Tues-

day hatched from eggs laid

by selected hens on free



CHICKS At Reduced Prices CHICKS

Barron S.C. White Leghorn, Barron S.C. White Leghorn, heavy weight and heavy layers American S. C. White Leghorns, heavy laying strains, S. C. Brown Leghorn, the most beautiful Leghorn and a good layer. orous chicks that will live and grow into money for you S. C. Anconas, great layers.

Seehow buck-lescatatraps and how holes weaken them. Wulsh Har-ness has no rings to wear, no buckles to tear, no holesia

J.M. WALSH

4-22

We Ship By Parcels Post and Pay the Postage to Your Door. Catalog free. WYNGARDEN HATCHERY, Box M, Zeeland, Mich.

of CATTLE, HORSE, CALF, COON, FOX, SKUNK, MINK, MUSK-RAT, WOODCHUCK, DOG, CAT and RAB-BIT SKINS.

What kind of skins have you?
We make up and line Men's &
Ladies' Fur Coats, Scarfs,
Muffs. Capes, Collars, Robes
and Mittens from raw skinsOirculars Free. Use plenty of
salt on green hides.

W. W. Weaver, Reading, Mich. Custom Tanner. 30 yrs. Experience

Cooper Big in Size

If you wish to know real strawberry satisfaction you must grow our new variety Cooper, one of the greatest strawberries ever grown. Our new catalog tells you all about Cooper. Don't buy a plant until you get our catalog. We can save you money on standard and everbearing strawberries, also on raspberry, blackberry, grape, and other fruit plants. Big Cash Prize Offer. Send for catalog.

for catalog. STEVENSVILLE NURSERIES, Box 80, Stevensville, Michigan

#### -PATENTS

C. A. SNOW & CO. Patent Business
Send model, sketch or photo for free advice, cost
of Patent, etc. Book on Patents Trademarks
and Copyrights free. Write or come to C. A.
SNOW & CO., 710 8th St., opposite United
States Patent Office, Washington, D. C.

LAKELAND FUR EXCHANGE Buyer wanted in every county to collect turs. Salary or commission. Specializing in shipments and local dealers' lots, Will call for lots of \$1000 or over. Write for list, (four grade list). Highest prices. Fair sort. Ollyvin DIX, Salem, Mich.

Strawberry Plants

\$3.50 Per Thousand. Our strong, health, tremendog
bearing plants guarantee big crope of luscious berries.
Best varieties for all kinds of soils, Full line of Raspberries, Blackberries, Currants and Asparagus. Large
stock of extra fine Grape plants. GREATLY REDUCED PRICES. Our customers are making up to \$1200 per
acre from small fruits. New color catalog free. Write
today. acre from small truits. Now 22, BRIDGMAN, MICH.
BRIDGMAN NURSERY CO., Box 22, BRIDGMAN, MICH.

## Peach, Cherry and Apple Trees

at Wholesale both 1 yr. and 2 yr. by mail and Express Special prices to Orchardists. Send for 1922 Guaran teed Seed and Tree Catalog, Send today. Allen Nur sery & Seed House, Geneva, Ohio.

Wanted, bright young aggressive men, with spare time to sell high grade line of implements. Liberal terms. Address 1131, Indianapolis, Ind.

We Pay \$200 MONTHLY SALARY, furnish rig and expenses to all who qualify for introducing guaranteed poultry and stock powders. BIGLEtt CO., X-683, Springfield, Ill

Homespun Tobacco collect on delivery. 10 lb. Free receipt for preparing. Ford Tobacco Co., Mayfield, Ky.

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

FERRETS

Ferrets For Sale

GLENDALE FERRET CO. Wellington, Ohio

500 Ferrets For Sale
O. J. DIMICK, Rochester, Ohio

1000 Ferrets they hustle RATS and rabbits, N. A. KNAPP & SON, R. 2, New London, Ohio

# Shippers, Attention!

Do you want top prices for your yeal, hogs and poultry? If you have already shipped to us you no doubt are pleaseed with the returns and prices; if you have not availed yourself of our service write us for tags and quotations. RETURNS USUALLY MADE THE SAME DAY GOODS ARE RECEIVED.

# Gunsberg Packing Company, Commission Merchants. 2460 Riopelle Street, Detroit, Miche

Reference: Peoples State Bank.

# Holmes, Stuwe Co., 2429 Riopelle St.

Commission Merchants. Dressed Beef, Hogs, calves, Poultry, Live & Dressed, Provisions, etc. Correspon dence Solicited. Ref. Wayne County & Home Savings Bank. Bradstreet. Detroit, Mich. Cherry 7654

# HAY SHIPPERS, for highest prices bill all cars to The E.L. RICHMOND CO., Detroit.

TANNING Let us tan your hides and furs and make up into stylish coats, robes, scarfs, gloves, mittens, muffs fur sets, etc. We also tan hides into glove, mitten, lace, sole and harness leather. Highest class workmanship and materials used. Write for our samples. Price list and shipping tags free. Over 30 years of experience.

#### Stevens Point Tannery, Custom Tanners and Furriers Stevens Point, Wisconsin

25c—will bring you semi-monthly utility farm poultry newspaper one whole year as trial. POULTRY GUIDE. Box D. Montpelier, Indiana

POULTRY

#### BABY CHICKS

Finest strain Barron White Leghorns, Barred Rocks, R. I. Reds. Northern grown, free range, rugged stock. Low prices. Safe delivery. Catalog. Book early.

MICHIGAN HATCHERY, Holland, Mich. Member Ottawa County Hatcher's Association

BABY CHICKS. White Leg-Rocks, Barred Rocks, Buff Rocks, Anconas, R. I. Reds, Black Minorcas, 25 for \$5.50, 50 for \$10.00, 100 for \$18.00. Postage paid, 95% live arrival guaranteed. DURAND HATCHERY, R. 1, Fenton, Mich.

Buff Orpington Cockerels. Even color, large bone type. Weigh over seven pounds. Roy Salway, Jonesville, Mich.

Chicks of Quality pure bred S. C. White Leghorns for egg production and best standard qualities for prompt delivery; order now; new low price catalog free. Riverview Poultry Farm, R. 2, Zeeland, Mich.

For Sale Beautiful pure bred prizewinning, laying strain Golden Wyandotte cocker-George A. McFate, Horton, Mich.

RURAL BABY CHICKS
S. C. White Leghorns and Anconas. Free Range
Stock. Heavy layers of large white eggs. Satisfaction and safe arrival guaranteed. Catalogue sent
free upon request. RURAL POULTRY FARM &
HATCHERY. R. 1, Zeeland, Michigan

Silver, Golden & W.Wyan., grand winnings at Grand Rapids Coliseum show. Choice breeding stock, Prices reasonable, C.W.Browning, R.2, Portland, Mich.

Trap-Nested Strain S.C.W.Leghorns. Heavy winter layers, snow white, high on shank, pelvic bones thin and well spread Baby chicks and hatching. Have few choice cockerel's and pullets for sale, shipped on approval. Leonard Sumner, R.2, Box 97, Romulus, Mich.

Pure Bred Bradly Barred Rock Cockerels.
W. H. CAMEHL, Chesaning, Mich.

#### WE BREED

Park's Strain Barred Rocks, Barron Strain White Leghorns. The two greatest strains of utility poultry in America, Baby chicks for early delivery should be ordered soon. Let us quote you our price on your requirements. Pullets, hens and males at reasonable prices. Bred in the north for northern conditions. PINE BAY POULTRY FARM, Holland, Mich.

#### WHITE WYANDOTTES egg average, Cockerels \$5.00. Pens \$15.00 to \$25.00. 207 egg average. Cockerels \$5.00. Pens \$15.00 to \$25.00. Eggs \$2.00 per 15. FRANK DE LONG, R. 3, Three Rivers, Mich

W hite Wyandotte Cockerels \$5. Bred from established heavy laying strain. 80% average egg yield ast winter. W. A. Blanding, R.1, Greenville, Mich.

#### MAMMOTH BRONZE TURKEYS

Choicest breeding, Bird Bros. stock for foundation, Great size, splendid color. good markings. Healthy, thrifty birds for sale. Wesley Hile, Ionia, Mich.

TURKEYS, Michigan's Best Giant Bronze. Splendid pure bred birds. Great in size, fine in color. N. EVALYN RAMSDELL. Ionia, Mich.

Mammoth Pekin Ducks Fine breeding stock.

J. W. Drake Farm, R. 4. Pontiac, Michigan.

W. Chinese Geese, Pekin Ducks, R. C. MRS. CLAUDIA BETTS, Hillsdale, Mich.

Bourbon Red Turkeys Splendid pure bred birds.

MAURICE A. RECTOR, R. 3, Rockford Mich.

FARM HELP

#### WANTED EXPERIENCED FARMER

A competent practical man, preferably with grown family, who can produce results on a thoroughly high class if60 acre farm near Detroit. Must understand registered cattle, the care of young orchard, familiar with modern farm machinery and best practices. All buildings including farm house strictly modern. Write fully giving complete experience, number in family, ages, references, etc. Also state financial responsibility in case of share arrangement, or wages desired Address Box H 114, co Michigan Farmer, Detroit, Mich.

Experienced farmer wants position at once by touth For year, also a good mechanic, age 35. State wages paid. Emerson E. Jerome, R.I. Berrien Center, Mich.

Please Mention The Michigan Farmer when writing to advertisers

# JOU and Thousands of Other Farmers-will Learn How to Grow Bigger Crops after Reading this Remarkable New Booklet

successful Illinois farmer thought his land good enough—until he discovered that without investing in commercial fertilizer he could make the same soil produce double the corn by planting certain crops he did not know as soil-rebuilders. A Michigan farmer wanted to add more livestock but thought he could not do it without increasing his acreage of pasture. He turned to a new type of clover which attained a 10-foot growth and thus solved his problem. Still another farmer believed he would have to keep on buying concentrated feed—such as bran, shorts, oil meal—for the end of his life. But he found another way to produce fat and protein—and besides, it permitted him to put land to work which had never before been able to produce a profit.

The methods and secrets used by these men—and scores of others—are now yours for the asking. They are revealed in this remarkable FREE booklet, "Your Biggest 5 Minutes of the Year". You can know how really simple it has been for these men to secure greater soil fertility—to increase some crops as high as 300%—to secure richer flows of milk—to fatten beef more rapidly—to attain even more scientific crop rotation. You can know why all of them are enjoying the convenience and cheer of electricity and the help of the tractor and truck as a result of their discoveries.

# Now You Can Know— Mail Coupon Today!

"Your Biggest 5 Minutes of the Year" is the title of one of the most remarkable booklets ever published for the betterment of agriculture. It tells how old land can be made new—how there need be no waste of a single acre mechanically possible to till. Contains 36 pages in all, 32 photographs and drawings and is attractively printed in two colors. Fully describes how legumes—the "big money" crops like alfalfa, sweet clover, soy beans, cow peas—can be raised profitably. Discusses Hubam—the newest discovery in sweet clover—which reaches the tremendous growth of 10 feet in some sections. Devotes several pages to forage, soiling and

grass crops such as Sudan, Millets, Kaffir Corn, Milo Maize, Feterita, Blue Grass. Impartially treats on their values, their yields and the soil and climate required for their growth. Points out how famous "KROP-KING" Field and Grass Seeds—hardy, drought-resisting and of high germination and purity test—are helping thousands of farmers to bigger yields of all these crops. Discloses methods that eliminate those little mistakes which are so costly in the end and which can just as well be prevented. Everyone interested in farming for bigger profits should ask for this booklet. It will be sent without cost or obligation. Just mail the coupon today.

# several pages to forage, soiling and or obligation. Just mail the coupo

MILWAUKEE SEED CO., Milwaukee, Wis. GRASS AND FIELD SEEDS

\*KROP-KING" Brand Field and Grass Seeds are sold by the best dealers. Insist on "KROP-KING"— accept no substitutes. For your protection, this seed is sold only in bags bearing the "KROP-KING" trade-mark identical with the one reproduced here. May be purchased in not only standard 2½ bushel bags, but handy 1 and ½ bushel sizes as well.

#### Our Guaranty—A Test Tag On Every Bag

Whether the seed law of your state requires it or not, a test tag accompanies every bag of "KROP-KING". Germination and purity percentages, together with date of test and year in which seed was grown, are all marked in plain figures. No guesswork; you know at a glance the whole story of the seed inside the bag.

It is our purpose to make "KROP-KING" the highest-quality, biggest producing, most vigorous-growing grass and field seed. Good seed is every farmers' greatest asset. "KROP-KING" is the kind to sow.





Ask for Your Copy Today = its FREE

The name "KROP-KING" as applied to the field and grass seeds of the Milwaukee Seed Co., Milwaukee, is used on only the highest quality seed of the following kinds this organization produces: Red, Mammoth, Alsike and Sweet Clover; Alfalfas; Timothy, Blue Grass; Red Top; Orchard Grass; Milets; Cane; Cow Peas; Soy Beans and Seed Grains.

Milwaukee
Seed Co..

108 W. Water St.,
Milwaukee, Wis,
Please send me my
FREE copy of the 36page book entitled Your
Biggest 5 Minutes of the
Year".

Name

Town\_

State\_

R. F. D.