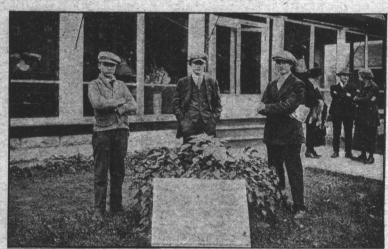


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ONE YEAR \$1.00 FIVE YEARS \$3.00

## Snapped at the Michigan State Fair



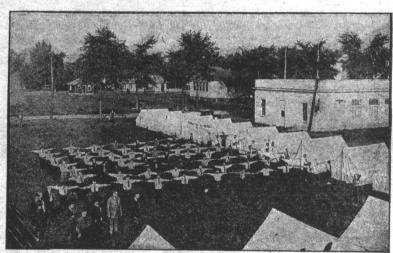
Rex Stowe, Dowagiac; Carl Johnson, Ironwood, and Walter E. Ball, Charlotte, win trip to the International.



Secretary Bingham and Staff at State Farm Bureau Headquarters.



Wayne County Poultry Team with Club Leader G. O. Stewart.



Secretary Dickinson watching State Fair School Boys at their Morning Drill.



Messrs. Ball and Baker, both of Charlotte prove the best Junior Judges of Dairy Cattle.



Farmer Tourists Preparing for a Day's Run.

## The Michigan Farmer **Editors and Proprietors**

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DETROIT, OCTOBER 2, 1920

### CURRENT COMMENT

The Farm Bureau Program

N line with the de-Michigan State Farm too many of them. Bureau to keep that

out of politics, is their recent announcement that the bureau's legisla- will, the probability is that they will tive program will not be made public not. Even good industrial proposi-until after election. There will, we tions are uncertain as to future profbelieve, be no doubt in the mind of its, being dependent for same on the any student of business and political quality of management given them in economy regarding the wisdom of this addition to the uncertain vicissitudes course. Nothing could be more fatal of business conditions with which they to the future success of this promising will be confronted, while the law of organization than its entrance into averages is strongly against a profitpartisan or personal politics. Its pro- able return from investments in specugram, if sound and backed by a united lative enterprises. membership will command the attenecutive departments regardless of their been offered and has refused thoupersonnel. Adequate farmer represensands of dollars' worth of advertising not been reported by the county agents. tation in the state government is most of industrial stocks, ranging all the desirable, but its accomplishment is way from wildcat oil promotion enterheads of their organizations and the es, because we have believed the surindividual voters have a habit of decid- plus farm capital of Michigan could ing these matters anyhow.

### Investing Surplus Capital

A S a general proposition the best place for the average farmer to invest any surplus capital which he may accumulate is

in his own business. In very many cases a comparatively small additional investment in the farm business will not only pay good interest on that in-

The Lawrence Publishing Co. standpoint, others purely speculative, year. and some actually fraudulent. This has been true ever since the close of the war, due to the fact that farmers had been liberal purchasers of government bonds as a patriotic duty and a strong appeal could be made to them to exdustrial stocks which the skilled salesman could show to promise far greater earning power. And with the development of an increasing stringency in the money market the vigor of this class of solicitation has been redoubled because of the increased difficulty in securing new capital for any kind of enterprise.

Regardless of the character of the stock investment offered, the exchange of government bonds for it is generally doubtful economy. The bonds will yield a regular interest income in proportion to their safety as an investment, and will return the principal unimpaired at maturity. At the same time they will remain the most liquid of all investments, most easily converted into cash in cases of emergency and the best of collateral for temporary loans. Government bonds clared intention of are an exceedingly valuable business the officers of the asset for any man. Few farmers have

On the other hand, while money inorganization strictly vested in industrial stocks may pay as well as the stock salesman says they

During this period of inflation and tion of the state's legislative and ex- exploitation, the Michigan Farmer has more properly the function of interest- prises to legitimate and promising ed, individual farmers than of the manufacturing and financial businessbest be used right in the local farm investments offered.

> Commodity Price Levels

cate that the peak of inflated

tied up in the business. This is par- to thirty per cent having been an- bership, the State Farm Bureau can ticularly true where better drainage is nounced by leading firms in many lines be considered from now on as the truly needed, where lime is needed as a soil of trade. 'This general reduction in qualified "voice of the farmer." amendment to encourage the growth commodity values has been reflected of clover or other legumes, where the in the grain and foodstuffs market dur-live stock needs improvement, where ing the past week. The decline in all their seed business through that labor-saving equipment is required for these markets has not, however, been central agency. Half a dozen more the economic operation of the farm, nearly so propounced due to the fact have promised and are only waiting the economic operation of the farm, nearly so pronounced, due to the fact have promised and are only waiting by an interurban car. where buildings need repairing or re- that values in these lines had already for the signature of the president or a modeling to adapt them to present been discounted as generally as was favorable occasion for a meeting.

The state's alfalfa order which Mr.

The state's alfalfa order which Mr.

The state's alfalfa order which Mr.

States will reach a level twenty per ably planted as a source of future inbuyers. In fact, the farmer's products

The state's alfalfa order which Mr.

Nicolson, director of the seed departice.

Nicolson, director of the seed departicent below that which prevailed durations, september 27.

The state's alfalfa order which Mr.

States will reach a level twenty per ably planted as a source of future inbuyers. In fact, the farmer's products

The state's alfalfa order which Mr.

States will reach a level twenty per ment, will take out to Idaho with him cent below that which prevailed durations are about the only once in which the incomplete or conventions of the seed departicent of the seed depa come, where home comforts or conven- are about the only ones in which the in a few weeks may total one hundred ing the war period.—Bituminous iences will make farm life more at- law of supply and demand has operat- and fifty thousand pounds. The state tractive and better worth the living, ed to lower prices since the war, and seed department has made arrange- and in a thousand other cases which in this case the operation has not ments with the alfalfa growers of the cannot be enumerated here. In a great reached the consumer to any notice- majority of cases, surplus capital can able extent. There is plenty of slack large part of their best surplus prodbe more prestably invested in the to be taken up between producer and uct, providing the buying is done shortfarm business than elsewhere, and consumer without radical lewering of ly after threshing. Michigan farmers Negoriations between American where this is not the case the next report price levels to the producer of are lucky that the season is late out where this is not the case the next general price levels to the producer of are lucky that the season is late out Bolshevik trade mission are being enbest use to make of it is to lean it to foodstuffs. Of course, the lewering of there this year for, because of this oir tered into looking toward the opening some other good farmer in the commugeneral commodity prices is a factor cumstance, they are enabled to assemof commorcial relations.—The Betroit nity, on adequate scentity, of course, to be taken into consideration in a ble orders in time. Michigan is buying milk commission reduces the price to aid him in properly supposed his study of markets. to aid him in properly financing his study of market conditions as related this seed in connection with New York.

To farm products, but this downward Illinois and some other states.

The state of the second relations are in December 1. The state of the second relations are in December 1. The state of the second relations are in December 1. The state of the second relations are in December 1. The second Farmers everywhere are being solic- trend should not cause farmers to be- Some farmers have been complain- troit investigating prices.

### Farm Bureau News

change Department of the Mich- the million mark. change these securities at par for in igan State Farm Bureau. Favorable reports have come from many more. News of the Week When twenty have signed, which will probably be within the next two weeks the exchange will begin business.

> Thomas B. Buell was elected secre-Thomas B. Buell was elected secretary and business manager at the railroad points from the bolshevists. meeting of the board of control Sep-Japanese statesmen believe that noth-tember 21. Mr. Buell is a delegate to ing can be done with the race ques-the board from the State Farm Bureau, tion in California until after our electhe board from the State Farm Bureau. Sales manager is Joseph Wickens, a man who has studied grain marketing ers resign.—Ford Motor Company reall his life and handled grain for four duces the price of cars from fourteen to thirty-one per cent.—The \$700,000,large successful firms.

> cars. Such elevators may join the ex- ed into. change by signing the contract and providing a \$500 collateral note. They THE people of the Chinese province of Shantung are starying and a has raised this amount to \$200, when der states must be recognized .bership in the exchange.

> ergetically in one county after anoth- try. er. Secretary Bingham believes that the total membership will be 100,000 by January. There are now five counties in the upper peninsula and eight indicates to military observers that the lower peninsula to be canvassed. The Reds plan a new offensive on Polymer and in the immediate future. The fed. The present membership as reported eral government will be asked to ap-

Campaigns for membership are now going on in Alcona, Kalkaska, Muskegon, Houghton and Isabella counties. State Farm Bureau still maintains its

The only parts of the state not thorcommodity oughly organized are a few counties in prices has been pass- the center of the lower peninsula and ed, and that a sharp a few in the west end of the upper pevestment, but will as well, add to the downward readjustment is in progress ninsula. So thoroughly representative earning power of the capital already all along the line, cuts of from fifteen of the farmers of the state is the mem-five persons being killed and many earning power of the capital already all along the line, cuts of from fifteen of the farmers of the state is the mem-five persons being killed and many earning power of the capital already all along the line, cuts of from fifteen of the farmers of the state is the mem-five persons being killed and many earning power of the capital already all along the line, cuts of from fifteen of the farmers of the state is the mem-five persons being killed and many earning power of the capital already all along the line, cuts of from fifteen of the farmers of the state is the mem-five persons being killed and many earning power of the capital already all along the line, cuts of from fifteen of the farmers of the state is the mem-five persons being killed and many earning power of the capital already all along the line, cuts of from fifteen of the farmers of the state is the mem-five persons being killed and many earning power of the capital already all along the line, cuts of from fifteen of the farmers of the state is the mem-five persons being killed and many earning persons being killed and

Twelve counties have signed the con-

ited for subscriptions to a great varie- come panicky and force their products ing because they did not get their warety of stock company enterprises, some on a speculative market in greater house receipts for wool as soon as they of good promise from an investment than normal bulk at this season of the expected. To facilitate wool grading, a second grader has been hired. From now on it will be possible for the wool department to issue warehouse receipts for between 30,000 and 40,000 DOZEN elevators have signed the pounds of wool a day. The amount of contract with the Elevator Ex- wool actually graded up to date is past

Wednesday, September 22.

THE troops under General Wrangel tions.—The New York assembly ousts three socialist members while two oth-Important provision was made in regard to small elevators whose annual volume of business is less than ten Germany if a separate peace is enter-

Thursday, September 23.

will pay the regular handling charge of one per cent and also \$10 on each car they ship. This \$10 will be credited to the elevator until the business reached that the independence of border than the independence of border that the independence of border the elevator will be given a full mem-campaign train of democratic nominee Cox is wrecked near Phoenix. Ariz.— The State Farm Bureau is beginning has started a movement to care for to see the end of the extensive cam- 2,500,000 destitute children in Europe. paign for membership which began nomic situation shows that industry last October and has been pushed enhas taken another slump in that countries of the another slump in the anothe

Friday, September 24.

to the state office is 84,358, which, point a commission to effect a solution however, is considered conservative in of the Japanese-American problems. the light of the fact that many mem- Church workers assembled at Atlantic bers brought in by follow-up work have City declare that prohibition has increased church attendance and lessennot been reported by the county agents. ed materially the work of rescue mis-The agents are being asked this week sions.—The leading nations of the to send in their total membership world are represented at a conference at Brussels to discuss world financial

Saturday, September 25.

A PROPOSAL for an armistice to be Ingham county begins a campaign October 11, with Dickinson, immediately after. No arrangement of the Russo-Polish peace conference.

A commission from Department of the Russo-Polish peace conference. well as because of the impossibility of being certain of the soundness of the bic and Ontonagon for campaigns. The interstate commerce commission approves a further increase in express rates averaging thirteen and a half per policy of not putting on a campaign cent.—There was a considerable de-RECENT trade de- until there is a definite request on the crease in both exports and imports during the month of August.—A new during the month of August.—A new record for a month's traffic through the Panama Canal was established in

Sunday, September 26.

RIOTING by Korean students at Gensan, Korea, resulted in twenty-The Mexican government closes all saloons along the Mexican-United States border.—Polish armies are clos-States border.—Polish armies are closing in on the Reds at Grodno.—Italian

Monday, September 27.

## Prepare for Next Year's Corn Crop

Select Seed Ears This Fall-By A. L. Bibbins, Extension Specialist, M. A. C.

our bright tin-bladed pride and joy.

unseen" method? Not much, that les- yielding ability in their blood. son was well learned back in the

That is good common sense but how inconsistent many of us are. We will not allow the other fellow to trick us harvest one may select seed that may in the purchase of an animal; but each be counted upon to substantially imyear we go on and play the "sight un- prove next year's corn crop. One seen" deal on ourselves with the corn should be equipped with a sack tied crop, the value of which is greater across the shoulder which, when filled, than any one branch of our farming may be emptied at the end of the rows industry.

### Good Blood Counts.

To be sure, good looking ears are selected by many of us from the crib tion of the selector is a good ear which or perhaps from the shock at husking is borne about hip, high and hangs at

ducing herd he would not be satisfied by merely knowing that the animals selected for the foundation stock were just pleasing to the eye. No, he would carry his investigations much further and in addition to selecting typy, niceappearing animals he would be certain that they came from high-producing strains. The value of high-yielding foundation stock is not confined alone to animals, for the laws of nature are equally as true with the plants. Good blood counts in both cases.

"By their fruit so shall ye know them.

### Environment vs. Heredity.

In selecting seed ears from the shock or crib we are unable to ascertain whether the fine appearing ears owe their development to heredity or to environment. This is all important as the former may be transmitted while the latter is not.

The great majority of crib-selected

These do not make the best seed as and has matured. Would you buy a bull by the "sight they do not necessarily carry high-

plants which bear the ears.

### Field Selection.

Going into the field shortly before where the corn may later be conveniently gathered.

The first thing to attract the atten-

were often greeted by such a chal- not owe their fine qualities to good of suckers and multiple ears, we may frosts. lenge. Yes, and we bit until stung breeding but to the extra plant food, consider the ear to be valuable for with a no-bladed affair in exchange for moisture and sunlight afforded them. seed, especially if it be well filled out the same day that they are selected

> lem is quite well under control. In freezing. crib or shock selection the tendency is to select late maturing ears which acquire abnormally long growing seasons to complete their growth and in crop. Experiment stations and many the average season are often caught by frosts with the result that the following spring finds a shortage of seed to the extent of three to four bushels and many poor stands of corn.

#### Storage.

No good stock man would ever leave time; but, what is known of these a sloping angle. When such is found his sire exposed to the cold, damp ears? Nothing much, save that they the plant should next be considered, winds of the fall and winter, but often are about the right size, are well fill- If there are missing hills adjacent this one may observe seed corn hanging on ed out at the butts and tips, and that ear should not be selected for it prob- the back porch or in some similar \$75.00. they came somewhere from the corn ably owes its goodness largely to its place. Seed corn should be as carefavored environment. However, if the fully housed as the breeding animals. If one wishes to build up a high-pro- plant is growing under uniform condi- This is especially true in the early

RADE cha jack-knives, sight un- ears are produced by plants that have tions we may quite safely attribute its fall when the corn contains a high perseen!" Nearly all of us can re- unusually favorable conditions under quality to heredity. If the plant is centage of moisture, after thus makmember when as youths, we which to grow-hence such ears do strong, of good average height, free ing it very susceptible to injury from

The seed ears should be gathered and stored in the attic, furnace room, The maturity factor is one of prime or some other place where a good free importance to Michigan farmers for circulation of dry air about each ear In order to know that the selected our growing season is none too long, is to be had. Under such conditions youthful jack-knife days. We now de- seed ears are capable of producing In going through most fields of corn it the moisture will soon be reduced from mand to be shown. Further, we not high-yielding progeny we must, as in may be readily noticed that there is a forty-five or forty per cent, to twelve only want to know the animal's his- the case of animals, know something wide variation in maturity. Those ears, or fifteen per cent, which is sufficienttory but that of his ancestors as well. of their ancestors. This necessitates other factors being even, which show ly low to withstand zero weather with-No more of this "sight unseen" busi- the studying in the field of the parent that they have matured within the nor- out injury. Even after the corn has mal growing season, should be chosen. been dried out it should not be expos-After a year or two of such selection ed to damp air for it will gather moisit will be found that the maturity prob- ture and then be easily injured by

#### Value of Field Selection.

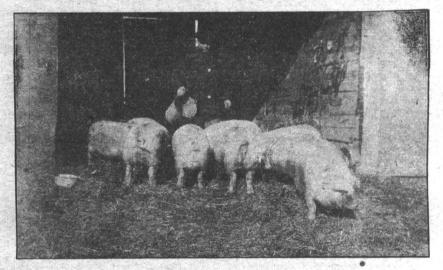
Usually enough seed may be selected in a day to plant the next year's corn belt farmers have clearly demonstrated that the crop may be increased per acre by good field selection. This means \$75 to \$100 more for the corn crop, hence we may calculate a day spent in the field selection of corn is worth that amount. Not many of us can afford to miss a day's wages of

Two of Michigan's best corn men have practiced field selection for some time. These are Jesse Pickett and Robert Duncan, the originators of the two varieties which bear their names.

C. V. Towne, of Greenville, has made considerable progress with his Golden Glow corn. In 1918 Gilbert Van Wynen, of Holland, obtained Golden Glow seed from Mr. Towne and has field selected his seed for two years. This year Mr. Van Wynen has an estimated ninety-eight per cent stand, his plants are vigorous, even in height and maturity. The writer recently visited this field and was struck with the fact that the plants carried such fine ears, which in nearly every case are borne about three and a half feet from the ground.

The "sight unseen" method of crib selection does not pay. The time to select is when the most evidence is available and the most corn present to select from. That is in the fall and not in the spring after three-fourths of

## Good Corn and Good Hogs go Hand in Hand



## Saving Dollars Through Wise Planning

J. A. Howenstine Makes Careful Study of Forty Farmsteads

laid out many years before. Of the person installing them. ent layout. On the majority of these den, orchard, and permanent pasture dent or haphazard planning. The re- omy a location near the center of the

Na recent survey, forty representations it was evident that little thought were established many years previous, sults brought about by a carefully tive farmers were asked if they had been spent in their arrangement. In a majority of cases changes for the thought out design and a thorough were satisfied with the field and On several, the farm buildings were better can be made without much in- consideration of natural factors and building arrangement on their farms. located in the corner of the farm and convenience and without a great ex- the type of farming to be followed in-Twelve of these replied they did not with no thought of their relation to penditure of time and money, if the dicate the presence of a few simple think their farms were properly ar- the fields. In other instances good owner has a definite plan in mind and principles.

ranged and most of these were in farming land was allowed to remain develops a scheme or schedule for Buildings should be arranged pridoubt just how their particular ar-fdle simply because its location was making changes from year to year. marily from a utility standpoint. The rangement could be bettered. The re- too far distant from the barn to per- A number of factors enter into the number of trips taken from the farm mainder of the forty seemed to have mit economic handling of crops and arrangement of a farmstead. If the buildings to the fields on the average given no thought to the arrangement manure. In all cases no record had farm is considered as a manufacturing one hundred and sixty-acre farm in of their farms and were content to op- been made of the location of the tile establishment, with the barns and out- the course of a year number about erate them over a field arrangement drains except in the memory of the buildings as the central plant, the nine hundred. It is essential that these field as producers of raw material, and trips he made as short as possible for forty, eighteen expressed a desire to Usually the layout of a farm has the house as home, the problem of arthe saving in time and distance will rearrange their buildings, while the rebeen fixed by previous owners. The rangement is simple. The layout of a amount to a great deal in a year's mainder were satisfied with the pres- location of the fields, buildings, gar- farm should not be the result of acci- time. For the highest degree of econ-



farm is undoubtedly the best. All the pression that the house is a place for it is obvious that the requirements impression that the whole scheme and from the fields. Hauling of farm

position of the house should be given winter storms. primary consideration. It is best to

former, but in the minds of many has prevailing winter winds. A grove of around intervening buildings. advantages which more than offset its rapidly growing trees is a good feature The machinery shed and shop, if insurance, would justify a close ar-

duced and a greater degree of privacy consideration to the most efficient able. secured. An attractive approach to handling of feed, stock and waste, for

fields are accessible from the barnyard "where children are raised," and the of dairy farming are distinct from must be worked out around the well, and very little time is lost in going to barn a place "where stock is kept." those of a grain farm. However, a few or source of water. A windmill, gaso-The barn and other buildings form simple rules can be applied to the plac- line engine or electric power can be crops and manure is reduced to a min- the factory of the farm so that their ing of cribs and granaries. First, these used in supplying running water to all imum and when we consider that it relation to one another is important. structures should be placed where they parts of farm buildings. The placing costs the average farmer practically As a rule, the barn should be situated are accessible from the field. Where of water tanks and troughs under parhalf a dollar to haul a ton a mile this back of the house, never between the grain farming is followed, the placing tition fences, so that they are accessisaving in time and distance is consid- house and the road. A placement by of the cribs and granaries is fairly ble from either side of the fence is a erable. The water supply is concen- the side of the road where it limits the simple for it is not necessary to re- good feature. The accompanying photrated and accessible from all the view from the house is not desirable move large quantities of feed several tograph shows a plan of this kind. fields. The area in lanes is reduced to and should be avoided unless some un-times a day. Sheep, dairying, and hog a minimum and the expensive fences usual reason makes it advisable. A raising require the removal of large the close arrangements of buildings. to maintain them are practically elim- direction opposite to that of the pre- quantities of feed several times daily, Many farmers have wisely located vailing wind is desirable. It reduces so the shortest distance between feed their buildings several rods apart to Except in cases where the public fire risk and tends to carry the odors storage and feed lots is the most effi-lessen this risk. That this is a wine road divides the farm most farm build- of the barn and stable away from the cient. Apply the old saying that a precaution cannot be denied but it ings are located close to the highway, house. Yards and feed lots should be straight line is the shortest distance would seem that with a few simple This placing is not as efficient as the placed where they are protected from between two points. Do not carry feed fire preparations, lightning rods, sev-

disadvantages. It is easily accessible, in connection with farm structures, combined in one structure, need not be rangement when the saving of time and affords ready communication with when placed in such a position as to placed close to the other buildings. It and labor over the period of a lifetime school, town and rural delivery. The serve as a windbreak against severe is a good plan, however, to have it is considered. placed so that the horses may be tak-The location of cribs and granaries en from the barn, to the watering tion are the essential points to considlocate it on a slightly elevated, well demand individual attention so that trough, to the machinery and then to er in planning a field arrangement. drained area, not less than one hun- the exact placing of these structures the fields with very little interference Very often, however, it is impossible dred feet from the road. Distances of cannot be specifically designated. In due to intervening buildings. If this to secure an ideal arrangement in reone hundred and fifty and possibly two planning the arrangement of these building is used as a location for the spect to these two requisites, for the hundred feet are probably more desir-buildings it is a good plan to disregard power plant or the lighting system of plan of the farm is often influenced by able, in that the dust nuisance is re- the routing of the man and give fund the farm, a century of the man and give fund the farm, a century of the man and give fund the farm is often influenced by able, in that the dust nuisance is re-

farm buildings over a winding drive in most cases a change of owners farm is one of the easiest handled. structions, prevalence of highways and through an open expanse of lawn, prop- takes place before the buildings are Water can be piped easily from place the like. The type of farming and the erly decorated with shrubs and vines, worn out. Different kinds of farming to place. Water tanks can be located rotation system should bear a close will do wonders in dispelling the im-will require different arrangements, where needed, doing away with the relationship with the layout of a farm.

The danger of fire is an objection to eral chemical fire extinguishers, with

Convenience and economy of operathe contour of the land, differences in The water system on the average soil, streams and other natural ob-

## ews of the Agricultural World

ASK FOR NATIONAL SELLING AGENCY FOR WOOL.

pooled thirty million pounds of wool tion. and these farmers, through their State serve the consumer of woolen proding of the presidents and secretaries of the mid-west organizations at Manhattan, Kansas, last week.

Under the present arrangement the various states are competing in the market and buyers are taking advantage of the situation. Cooperating these states should get the full market price based on world supply and demand. The representatives feel that by reason of the large holdings buyers will be more anxious to get on a trading basis than where it is possible to deal with each state separately. It is suggested that the national selling agency be created by adding to the present wool committee of the American Farm Bureau a member from each state where the wool has been pooled.

"No matter what price this wool brings, the principal of wool pooling is economically sound," said J. F. Walker, chairman of the committee. "Farmers have done their own warehousing and grading, and will sell direct to the manufacturers. Last year they have profited from ten to fifteen cents per pound over the old way of selling to Ohio, November 9-10. the country buyer at the front gate. This has not made the consumer pay URGE LARGER CREDIT FACILITIES ed, home-grown and Dutch apples hold more but has encouraged production."

To Stabilize Live Stock Markets.

erative live stock shipping association ganizations.

FARMERS and shepherds in thir and E. G. Ketner, of Ohio, was appoint more adequately. teen middle western states have ed to draft a uniform plan of organiza-

Farm Bureau representatives, are ask- mended to their national organization other groups that every possible con- ropean imports supply the market uning the American Farm Bureau Feder. a thorough investigation of the advis- sideration is being given agriculture, til November, after which date transation to create a national wool selling ability of establishing live stock com- but that it is not within the province Atlantic shipments are in demand. The agency in order to dispose of these mission firms at stock yards in the of the federal reserve board to give main season for shipping American apholdings at the greatest advantage to middle west. The primary idea in es- the banks specific instructions as to ples to Norway is from December to the producer and at the same time to tablishing shipping associations and just what loans to make. Mr. Harding March. make it possible for the mills to better commission firms is not to save the indicated that there seemed to be no commission but to be in a position to action that the board could take at ties command the best prices, Balducts. This action was taken at a meet- better regulate supply so that heavy this time. gluts and sharp fluctuations can be avoided. It was stated that the action SCANDANAVIA OFFERS MARKET of this same body six months ago, to make quarterly surveys of live stock on hand and the probable amount to SCANDANAVIA offers a good though thans, Spitzenbergs, Winesaps, and be marketed, fits in well on the stabilized market program.

to the national association to call a Trade and Commerce. conference of all cooperative marketconference which will be held soon.

The next meeting of presidents and secretaries of middle west State Farm

FOR FARMERS.

federal reserve board, reiterated to the this year. The State-Farm Bureaus recom-delegation what he has told several In Norway, the home-grown and Eu-

FOR U. S. APPLES.

Marketing Holds Farmers' Attention. year in this trade are encouraging, The marketing of dairy products was according to the Fruit Trade Commisdiscussed and a recommendation made sioner of the Canadian Department of

Great Britain, the United States, ing organizations seems to hold the Holland, Switzerland, and Canada are center of attention of middle western the chief sources of the apple supply farmers. At the national grain mar of Scandanavia. Practically all of the keting conference called by the Amer- imports from Great Britain, however, ican Farm Bureau Federation in July, must be credited to apples from transence will be called the fore part of clude large quantities of re-exports imports.

Dutch Crop Complete Failure.

til the cheaper varieties are exhaust. is expected to be 160,000 metric tons. the market there until after Christmas. Holland and Switzerland have

ger and shipping points over the coun-federal reserve system had reacted mand for imported apples in Denmark growers of the northern states.

ty was recommended. A committee of against farm interests and urged that before the middle of December, on acthree, consisting of Howard Leonard, greater emphasis be placed upon the count of home and Dutch supplies. Owof Illinois; H. D. Lute, of Nebraska, need of financing agricultural products ing to the failure of the Dutch crop. however, American apples in all prob-W. P. G. Harding, governor of the ability will find an early market there

Throughout Norway the red variewins, Kings, and Ben Davis packed in barrels being special favorites. Practically no demand exists for green or cooking apples. In the box packs, the varieties especially desired are Jonaples and prospects for a successful good sellers but are less popular than more highly colored varieties. The Yellow Newtown is not appreciated except when red varieties are unavail-

> INCREASED AREA UNDER SUGAR BEETS IN BELGIUM.

HE culture of sugar beets in Belgium has considerably developed a similar conference for live stock Atlantic sources, re-exported. The ap- this year, planters having been encourmarketing was asked for. This confer- ples received from Germany also in- aged by the promise of remunerative prices. It is estimated that there has October and all farm organizations will from Hamburg. It is evident, there- been an increase of forty per cent in be represented. The fruit and vegeta- fore, that American apples comprise a area sown. There were in 1914, 140,ble growers have asked for a national large part of the Scandinavian apple 000 acres of ground devoted to sugarbeet growing for sixty-eight sugar factories, while last year there were 102,-Owing to the fact that the prices of 000 acres for eighteen factories, and Bureaus will be held at Columbus, trans-Atlantic apples in Sweden are this year 112,500 acres for fifty-six factoo high for ordinary consumption un- tories. The sugar production this year

NUT GROWERS TO MEET.

The whole middle west is now work. A DDITIONAL credit facilities for been the chief sources of Sweden's aping out a system of marketing live A the agricultural interests of the ple supply since 1917, because war con-Northern Nut Growers' Association stock cooperatively which seems des- country were urged before the federal ditions curtailed trans-Atlantic ship- will be held at Washington, D. C., on tined to stabilize markets. At this reserve board last week by a delega- ping. Since the Dutch apple crop is a October 7-8. The rapidly growing popmeeting it was decided that the coop- tion representing a number of farm or- complete failure this year, the demand ularity of the better grades of black should be satisfactory for American walnut kernels and the fancy prices is the first logical step. The county Spokesmen for the delegation declar- apples, both in boxes and in barrels. secured for the finest hickory nuts is type of organization, with one mana- ed that the present credit policy of the As a rule there is only a light de- stimulating interest among the nut

## The Cradle of American Cooperation

The Story of the California Fruit Growers' Exchange-By Herman Steen

(Copyright 1920, Standard Farm Papers, Inc.)

known only to the money lenders.

The farmers had trouble enough, few other things to overcome. But growing the fruit was a snap compared with selling it to good advantage. The growers were three thousand miles from the Atlantic seaboard, their principal market; and their product was highly perishable, and the best transportation service was rather indifferent; their fruit was not well-established on the eastern market, and had to compete with the well-known Florida oranges and lemons; the system of distribution was so inefficient that growers often had to pay the freight bills and give away the fruit. Above all, the market was ruled by speculators and commission men. The future for the grower was painted in black and mounted in ebony.

Upon Sound Economic Basis.

Today there is no farming industry in America upon a sounder economic basis than the citrus industry of southern California. In eve years out of six, prices are secured equal to, or well above, the cost of production. The growers are prosperous and are increasing their holdings. As evidence of that fact, remember that good orange land around Los Angeles sells nor from anybody else. It sells the Story, the venerable ex-president of valuations. The consumer has not suffered, for he is today using two or ons as he did a quarter of a century folded. ago; in fact, the consumption of these fruits is increasing year by year.

dustry from the verge of ruin to the ago, they formed local associationscourage and a big idea that triumphed local associations would solve the thority on cooperative marketing. over obstacles that towered toward whole knotty problem of marketing the skies. It is a story of success with- citrus fruit. out the assistance of good luck and comes to those with stout hearts.

### Doing the Job Themselves.

the banks were those whose business trolled by the growers themselves, up many of the local associations. was to handle the fruit on its journey which handles over seventy per cent from the producer's to the consumer's of the citrus fruit of California from table. The growers were apparently the growers to the wholesale distribuever, finally joined hands in 1895 in district in various cities, and provides tors in the cities.

BACK in the early nineties there born the California Fruit Growers' Ex- what the others were doing; the result properly. For instance, they employ was money in the orange and lem- change, the largest and best known or were that the state of the largest and best known or were that the state of the largest and best known or were that the state of the largest and best known or were that the state of the largest and best known or were that the state of the largest and best known or were that the state of the largest and best known or were that the state of the largest and best known or were the largest and best known or well and best known or The foundations for many large America. During the year ending Aug- had none. Then came a tremendous haul it to the packing houses; they fortunes, however, were not made by members over \$57,000,000 worth of or- loaded market and no oranges at New upon the cars. Not all of the fruit is the growers, but off them. The men anges, lemons and grape-fruit. It is a York. Under these conditions it was picked and hauled cooperatively, but best known to the receiving tellers of big cooperative agency owned and con- not hard for the speculators to break most of it is because a more uniform

#### Must Cooperate, Not Compete.

was money in the orange and lem- change, the largest and best-known co- was that the New York market might squads of pickers who take the fruit on industry of southern Califor- operative marketing organization in be flooded with oranges, while Chicago from the trees; they hire trucks to fortunes were laid in those days. These ust 95, 1920, it handled for its 10,500 rush of oranges to Chicago, an over- grade and pack the fruit and load it product is thus insured."

The district exchanges sell the pro-The remaining associations, how- duct. The central exchange keeps the forming an overhead clearing house, the necessary machinery for selling. It The California Fruit Growers' Ex- "We realized that we must not com- maintains a staff of eighty-nine salargoodness knows, in growing the fruit, change is a selling agency only. It pete against each other and that was ied agents in the principal market citwith frost, bugs, flood, draught, and a does not buy fruit from its members what we had been doing," said F. Q. ies whose business it is to sell the fruit when it arrives on the market. Every district exchange, however, has the final word whether it will accept the price offered, so the agent gets the best bid available and notifies the exchange, which accepts or rejects.

#### Can't Fix Prices.

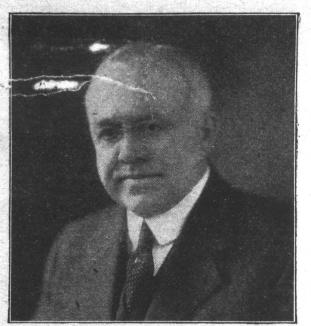
"We do not fix prices on oranges and lemons, simply because it is impossible to fix prices on a perishable product like ours," said Powell, in reply to a question. "We do attempt to stabilize prices, however, by holding off of glutted markets, and by marketing approximately one-fifty-second of our product each week. Should the whole market be glutted, we would simply ask our members to suspend picking for a short time. Oranges and lemons do not have to be picked any one time, but may stay on the tree for a considerable time. I want to emphasize that we do not attempt in any way to fix prices, but we do succeed measurably in stabilizing the market by using the means at our command."

The chief purposes of the organization, according to Powell, are to eliminate speculation in citrus fruits at the expense of the growers, and to reduce these two things act to the benefit of "We have no quarrel the growers, with the speculators and middlemen," At the present time there are two said Powell. "We have no antagonis-

### Eliminating Speculators.

The first great step forward by the California Fruit Growers' Exchange Each of the three organizations— was when it worked out the system of It soon developed, however, that the central exchange, district exchange, delivered selling. It did away with

As general manager of the California Fruit Growers' Fred H. Powell, has without question done more toward the establishment of the true principles of cooperation in America than any other one person. His work has gone far toward bringing the public to a general understanding of the difference between a cooperative organization formed for the benefit of the members and a corporation formed for pecuniary profit.



Copyrighted by Harris & Ewing

selling. It makes no profit for itself, each other's throats." It will be well to keep these things in

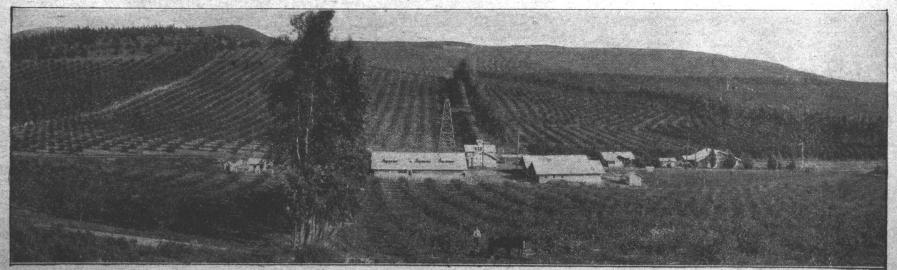
### Local Associations Ineffective.

Heaven-sent help, except as such help practical effect of these local shipping and local associations—have their sep- the practice of selling oranges in Calassociations was to largely eliminate arate and distinct work to do. The ifornia, because that was the the old speculators and make these as- local associations own or rent a pack- thing that induced speculation. This The big idea that saved the citrus sociations the speculators. Because ing plant; their job is almost entirely struck one group of speculators a body industry was, "Farmers must do the each local association operated inde- to take care of the mechanical details blow. Next it eliminated brokers in job themselves." Out of that idea was pendently, it had no knowledge of necessary to get the fruit to market the big market cities and substituted

from \$1,500 to \$5,000 per acre, and a fruit which its members produce, and the exchange, who told me the story. the cost of distribution. Naturally, large share of the orchards pay a reasonable return upon these tremendous cured, less only the necessary cost of we might work together, and not cut

three times as many oranges and lemtions which are organized into twenty eliminated simply because we have district exchanges. These district exfound a cheaper and more efficient When the orange and lemon grow- changes in turn have joined together way of doing business. We did not This transformation of the citrus in- ers first organized nearly thirty years in the central overhead organization, organize simply to put those fellows the California Fruit Growers' Ex- out of business, but to do better busiacme of success is one of the marvel- one for each community. These local change. Its headquarters are in Los ness ourselves than they were doing. ous stories of American agriculture. It organizations either rented or bought Angeles, the heart of the citrus dis- If they have been forced out, it is their is a story of pioneering along the paths a packing house and prepared the fruit trict; its general manager is G. Harold fault, not ours." of cooperation, a story of men with for market. It was thought that these Powell, national and international au-

### Three Jobs, Three Organizations.



After they Inaugurated a Sytem for Marketing their own Products, the Poor Fruit Growers of Santa Anna Valley Soon Became Prosperous.

trary control over it, even should we left until next week's article. desire," said Powell. "There is preserved complete and free competition between individuals and between local associations. Our exchange simply finds the market and gets together all the available data on supply and demand; we furnish this to every separate local association. Every man reserves the right to pick his fruit when "It is highly necessary for a coopera-As a matter of fact, our records show that approximately one-fifty-second of stabilizing markets."

#### Pooling the Crop.

sold. Each local association handles contract is an absolute necessity." this to suit its members. The princiceive the same price for their oranges, regardless of the time sold or the price received, provided they are of equal quality. In other words, all the re- tive agency of any sort to have capital when all the oranges are sold, the ago the change began to the non-profit known the world over. in proportion to the amount of pro-

questioned stated that they did not an- anges handled during that time. There series. ticipate going farther into the trade are many kinds of pools in the orange than they already have, unless it and lemon associations; the method of should prove necessary for them to handling these is rather complicated to an outsider. This principle can be "Owing to the perishable nature of made clearer in discussing non-perishour produce, we cannot exercise arbi- able products like raisins, and will be

#### Contracts with Growers.

change has a contract with each of its ten thousand five hundred members year period, and may be revoked if notice is given during a certain season, cient distribution of fruit,

Formerly the California Fruit Growchanges and the local associations. "It success." is fundamentally wrong for a coopera-

salaried agents. This eliminated an- ceive a payment each month as fast the business done by the individual. A tion whether in California or Nebraska. other group of orange and lemon spec- as money comes in for oranges sold. certain amount is retired each year ulators. The exchange now and for When all the oranges of the year are also-usually that which was paid in on economic necessity. It must begin many years past has sold in carload sold, a final payment is made. Others the fifth year before. This point will in a small way and must not proceed lots to wholesale fruit dealers, who in have a new pool every month, and be discussed more fully in a special faster than its member. Producers turn distribute to the retail trade. Sev- final division is made every thirty article on financing cooperative asso- must stick together and have a high eral officers of the exchange who I days of the money received for the or- ciations which will appear later in the degree of loyalty to the organization

#### Advertising "Sunkist" Fruit.

The California Fruit Growers' Ex- ply another illustration of the fact that nearly in proportion to use made of the binding them to deliver their products turns. After a time the shadow of over ing in business, therefore all members to it. These contracts cover a twenty- production hung over the growers. It should have an equal vote, regardless was warded off for many years by effi- of the amount of stock held.

In 1907 the exchange embarked on he wants to and to sell when he wants tive marketing organization to have its a brand-new experiment by starting on organization must be producers exmember bound to deliver their prod- an advertising campaign in Iowa, clusively. Producers are the only ones ucts to it for sale," said Powell. "Lack where the virtues of "Sunkist" or with an interest in the land. Others of this feature has killed many cooper- anges and lemons were extolled. A sooner or later try to dominate it, and the crop is delivered each week, a fac- ative agencies in California. Our con- forty per cent increase in consumption capitalize its success. The one-mantor which is absolutely necessary in tract has been upheld in the courts. resulted. From that modest start grew one-vote, rule is of equal importance; On the other hand, a cooperative soci- the present system of advertising it is based upon the equal voting powety must have a deeper loyalty than "Sunkist" oranges and lemons all over er of men. It gives confidence to small The pooling system is employed in that—a religion of cooperation among the United States. Nearly \$500,000 an- producers. dividing the proceeds from oranges its members, if you please—but the nually is spent on advertising. "This has justified itself in many ways," commented Powell, "it has kept con-members, not by compulsion. We are ple of the pool is that all growers reers' Exchange was a capital stock cor- sumption well ahead of production and all human, therefore, it is absolutely poration, as also were the district ex- has been the very backbone of our necessary to have a membership agree-

#### Fundamentals of Cooperation.

ceipts go into a common treasury; stock," declares Powell. Several years kindly philosophy on cooperation is money is divided among the members plan of organization without capital method of big business cannot be ap- growers cannot cooperate. Each farm stock, and most of the associations plied to a farmers' movement," he told industry must be organized by itself. some associations have a yearly A levy on sales is made to furnish the all its own. There are certain fundamust be actuated by a common interpool; that is, all the oranges of one capital needed to operate. This keeps mentals which must be observed in est, a common purpose and a common crop are pooled together. Growers re- the working capital in proportion to any producers' cooperative organiza- ideal."

"First of all, it must be founded up-

and to each other.

"Next, a cooperative agency of pro-As soon as the California Fruit ducers must be owned, managed, con-Growers' Exchange was strong enough trolled and financed exclusively by proto stabilize prices to a reasonable de. ducers. There can be no combination gree, the citrus industry began to be of growers and distributors or of growprofitable. Then came a period of in- ers and consumers. Their interests creased planting of trees and conse- are fundamentally divergent. The capquent increased production. It is sim- ital contribution should be kept as the easiest way to secure large produc- organization as possible. It should be tion of any product is to insure fair re- literally an industrial democracy work-

#### Producers Only.

"The membership in a cooperative

"A cooperative organization must be held together by the benefits to its ment providing that the individual producers must market their products Powell is a man of business, whose through the organization.

> "It must also be founded upon a spe-"The harsh cial crop. Bean growers and cotton

## OUR SERVICE DEPARTMENT

### DOWER RIGHTS.

Can a woman bargain or sell her diarrhea and die. W. W. dower right to her husband in the state of Michigan? Can a woman hold mouth and throat and the inflamma-as her dower right a third with the tion of the membranes causes the bird buildings on, or are they just entitled to a third interest in the whole place?

Dower can be released only by the wife or her guardian (if she have one) veying away the property, or by a subafter marriage she may after his death course, the most satisfactory. elect whether to take the provision made for her by such agreement or to claim her dower according to law; wherefore such post-nuptial agreement is not efffectual.

marriage, and not released by the wife. and what shall I do?

Unless the parties agree as to assigning the dower out of particular come of the property. J. R. R.

### HENS WITH CANKER.

They don't look right, then get ea and die. W. W. diarrhea and die.

tion of the membranes causes the bird pain in swallowing. It usually devel-Does a woman get a third in case of ops from exposure which has first the death of her husband, or the use brought on colds or roup. The tumors of a third?—C. B. which form can be taken out with a which form can be taken out with a sharp knife and the wounds painted with full strength Zenoleum. Washjoining in the deed of the husband coning the wounds with peroxide of hydrogen may also be beneficial. Isolate the sequent deed by the wife to the pur- sick birds in a brood coop where they chaser or his grantee, or by a settle- can easily be caught for frequent docment on the wife before marriage (if toring. It sometimes takes quite a of full age) and with her consent in while to bring a bird back to health lieu of dower. If she attempts to make when suffering from canker. Like all a release to the husband by agreement poultry diseases prevention is, of

#### BLACK SPOTS ON POTATO LEAVES.

Livingston Co.

like cankers in the mouth and wind- not cause any rotting of the tubers. It scalding is reduced to a minimum. is too late to control this disease now, Michigan conditions of apple packing and you doubtless will harvest a fair favor Jonathan spot. The apples stand crop if the rainfall is sufficient to about in the orchard, alternately heat-"make potatoes." It is the extra growth ing and sweating for some days and that stimulated, green vines make that then they are stored under warm storyou have lost as a result of this dis- age conditions. If the over-heating and tato soil I would advise consistent ed and if the apples are placed in propspraying of the tops with Bordeaux er storage Jonathan spot will not be mixture, making about five applications so serious. and putting lots of spray on the leaves.

### SPOTS ON APPLES.

made marketing a problem. They were all right when put into the cellar, but summer months?—P. P. by Thanksgiving you could hardly find a good one. The skin lost its fine flavor and took on a rank taste. What was the matter and what can I do to prevent it this year?

The discensive A. V. The discensive and have a right to run their cattle and horses in the highways during the summer months?—P. P. By Comp. Laws (1915), Sec. 7447 cited in the reply referred to, anyone may take up stray cattle running at large between November 30 and March

ease. Next year if you have good po- the sweating in the orchard are avoid-

### ANIMALS RUNNING AT LARGE.

Regarding a reply which appeared in your Service Department in regard to stock running on highways, I do not My Jonathan apples last year develexactly understand the answer, so am oped a peculiar skin spot which completely spoiled their appearance and have a right to run their cattle and have a right to run their cattle and horses in the highways during the

The disease you describe for Jona- 1; but it does not follow that cattle The dower right is a life estate in all the land owned in inheritance by all the land owned in inheritance by the husband at any time during the husband at any time during the personal land the land owned in inheritance by the husband at any time during the personal land the land owned in inheritance by green up to date are now showing tarry black spots on the leaves. The tubers are sound but small. Is this blight the land owned in inheritance by green up to date are now showing tarry black spots on the leaves. The tubers are sound but small. Is this blight the land owned in inheritance by green up to date are now showing tarry black spots on the leaves. The tubers are sound but small. Is this blight the land owned in inheritance by green up to date are now showing tarry black spots on the leaves. The tubers are sound but small. Is this blight the land owned in inheritance by green up to date are now showing tarry black spots on the leaves. The tubers are sound but small. Is this blight the land owned in inheritance by green up to date are now showing tarry black spots on the leaves. The tubers are sound but small. Is this blight the land owned in inheritance by green up to date are now showing tarry black spots on the leaves. The tubers are sound but small. Is this blight the land owned in inheritance by green up to date are now showing tarry black spots on the leaves. The tubers are sound but small large the rest of the year. on Jonathan that it is called Jonathan run at large, it is the duty of the over-V. V. W. spot. Its cause is not known, but it is seer of the highways of the town to The leaf trouble described is early not believed to be due to a parasite, take up any cattle found running at property, the court will set out the blight, although there may be some tip It would seem that the diseased con- large any time of the year, and anyone dower for the wife, in severalty if cap. burn or hopper burn also doing dam- dition is due to some type of surface may take up any cattle found in the able of equitable division; but if not age to your potatoes. Early blight is scalding, due to improper conditions road running stray in front of his then dower will be assigned of the in. a fungous disease of the potato and the as the fruit is ripening. This disease premises at any time of year by C. L. condition which you describe of the formerly of great damage to western (1915), Sec. 7287. And even if the town tubers remaining small is one of the shippers, has been reduced markedly should vote that cattle might run at things associated with this type of leaf by proper handling of the fruit after large, anyone might take up and imdisease. The growth of the tuber de- picking. The fruit should be placed pound any cattle found on his prem-Can you tell me what ails our chickers? The old fowls act like young chickers that have the gapes. They weakened the tuber production is ty-two degrees F., with proper ventila- how long it takes cattle running at gasp for breath and have what look weakened. This type of disease does tion provided. Under such conditions large to get off of the highway.—J. R.

## Is Cherry Selling a Gamble?

By I. T. Pickford

esting to talk over the plays. A ing of dealers. ing on for a large army of us.

shock of this actual cash in his pocket one-car market. was but to stir up dreams for another costs had advanced even higher. Most on the part of each player and conserv growers were wise enough to know, atism was the dominant feature. however, that nothing could be defi-

were reluctant to make contracts and rather than a wide range. at a low temperature.

running usually a week to ten days before shipped. after Early Richmond, and finally the vail.

I know that some growers have re-quality. ceived this year per bushel packed in organization for business and not for ket. The flavor and quality of a cherry

FTER a game it is always inter- mutual admiration, nor combined bait-

comparison of our foresight with- To go back and analyze this differout hindsight may or may not be com- ence in sales price. We agree that the forting. Practically all the cherries most vital cause has probably been are now out of the hands of the pro- faulty distribution. Whose fault is it? ducer, but of course only a limited per- Here is a whole mountain of problems centage are in the possession of the to dig over. Four dozen doting relaconsumer. Hence the game is still-go- tives in their blind devotion may send one baby four dozen teething spoons; Last year the cherry man made some four hundred cherry growers in their money. He had a good crop in gen- blind eagerness to dispose of a crop eral and the price was good, too. The may send a dozen cars of fruit to a

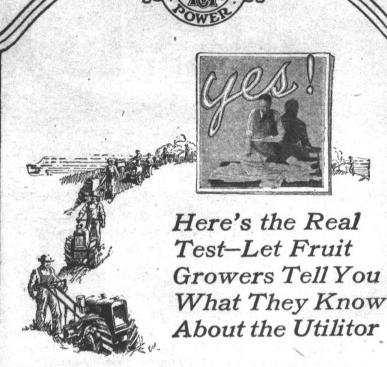
Cause number two is perhaps due to year. Therefore, early this spring and the fact that some contracts were summer it was thought by many that made before the harvest was on. These the price might be even better than sales were mostly neither the highest last year, inasmuch as production nor lowest. It was a game of guessing

Now the next consideration is one of nitely figured out until some estimate grade and pack. I want to go over this of the country's crop of cherries was at some length although it perhaps has not had the influence the past two As time rolled on it became quite years that it should. In other words, evident that the crop would be large having no definite standard grade although in some sections it was not causes a lack of confidence which up to last season. Canning companies tends toward a low "no-risk" price

growers generally stood pat. Now it It is true nevertheless, that some of it clearly understood that the cherry our high markets were struck by prohas but a short picking season. After ducers who had established a reputabeing removed from the tree it can be tion for quality. Value received is what held but a short time in the fresh state rules in the final accounting. Buyers unless actually frozen or at least held and sellers must remember that whether it is by contract or in the open mar-In Michigan there is about ten days ket, quality grade is the most fixed difference in ripening between the item to govern sales. The Michigan southern and northern ends of the Potato Exchange which has handled a cherry districts. In other words, the large part of the crop for the local as-Early Richmond in Berrien county rip- sociations has guaranteed a number ens about July 1 and at Traverse and one grade and mades sales F. O. B. Bellaire about July 10. Then comes This is not usual for cherries except the major producer, Montmorency, where the buyer actually sees each lot

When the tree has lost its leaves English Morello trailing the rest by a either by the leaf fungus, insects or week to ten days. This means that otherwise, its fruit is not first-class in taking Michigan as a whole the pro- any sense and when sold mixed with ducer relinquishes his hold on the crop other lots we can depend that the price in about twenty-five to thirty days and paid is for a medium or low grade. the average individual grower is har- Even where an association operates its vesting about one-half that time. You own cannery it will be found just as can quickly figure out how easy it is imperative that the stiffest kind of for the local markets and the usual grading be practiced, for if the success heavy receiving centers to become of such an institution is based on anyglutted and consequent low prices pre-thing it is on the individual receiving in proportion to that which he deliv-Without going to unusual extremes ers. A premium must be paid for

Slackness of pack was noted in some crates so low as \$3.00, and that others instances. If the boxes lack noticeably have received \$8.00. Why all this dif- in being full it makes a depressing efference? Certainly it hasn't been all fect on price. The best growers oval cupidity on the part of buyers nor sim- the boxes to the fullest degree possiple mushiness in the sellers. It may sible as an insurance of a level packbe natural enough for each to blame age at its destination. Confusing feathe other, but to get anywhere the tures that enter in and make difficult a growers have got to study the question clear basis for marketing the cherry from end to end, beginning right after are these facts: Many growers are irone harvest to plan the next and act responsible relative to the ripeness of in unison on a program. This spells the fruit which they put on the mar-



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Every claim we have made for the Utilitor has been justified by those who use this machine.

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Keep abreast of the times. Write today!

"Lots of Power-Full of Pep-Never Gets Tired"

Denton, Mich., June 15, 1920. Denton, Mich., June 15, 1920.
Dear Sir:
In reply to yours of 16th will say that I think the UTILITOR is a very good tool to have on a small farm.
I have used it quite a lot this spring and find that I can do almost anything with it that can be done with a horse.

horse.

It has lots of power and is full of pep all of the time, and never gets tired. I have used it to cultivate berries of all kinds, also corn and potates, and find I can do a very good job on all of them.

Have not had any bother with it and is always ready to go; just keep gas in the tank, water in the radiator and oil in the crank case and it will tire any man out if he keeps it going all day.

Yours very truly,

Yours very truly, (Signed) Chas. R. Clark.

"Very Practical on My Small Farm and Orchard"

Detroit, Mich., July 1, 1920. Dear Sir:

With reference to your letter of recent date I wish to say in reply that it gives me great-pleasure to recommend the UTILITOR to you.

I have found this machine very satisfactory and practical for use on my small farm and orchard and have been very much pleased with the re-

sults which it has given me. I repeat that it pleases me to recommend the UTILITOR to anyone inquiring about the merits of this machine.

Yours very truly, R. H. Schumacker.

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SALES DIVISION I





Inspecting Test Plots at Chatham.



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The Oven heat is even and easily controlled. Bakes and roasts to perfection. Hot-all-overtop saves fuel and effort in preparing meals. The flame, which heats the first two lids, passes under all six as well, making entire top a cooking space, without increased fuel consumption. You can cook and iron at the same time, without heating the oven or the kitchen. This hot-all-over-top feature is found only in the range which bears the name Joy Eclipse.

See your dealer. He will gladly show you the many desirable features. Write for catalog No.193 and Eclipse Cook Book.

The Eclipse Stove Company Mansfield - Ohio You Will "The Mark of Like a Perfect These Baker" **Features** Hot-All-Over-Top Cook entire meal at the same time, quickly and eas-ily—no shifting or huddling of pots and pans over 2 lids. Adjustable Oven Damper Not just "open" or "shut," but regulates heat to just the degree you want. Accurate Oven Thermometer No more testing. Steady heat, gauged by thermometer, to fit the recipe. White Enamel
Wiped off with a damp cloth. Clean and sanitary. Cool Kitchen -all-over-top without over-heating the oven he room. Saves almost half the fuel.



Treat Your Hord the Roberts Way Successful for 30 Years

Stamp Abortion Out **Keep It Out** 



ASK FOR
"The Cattle Specialist" Sent free on request. Anwers every question pertaining to Abortion in Cows. Tells how to treat your own herd at small expense. Write

DR. DAVID ROBERTS VETERINARY CO., Inc. 640 Grand Ave., Waukesha, Wis.



FOR HORSES, CATTLE, HOGS.





Try This

Stump Puller

Six Months to Pay! To prove these claims, we will ship you any a kirstin on THIKIY DAYS FREE TRIAL — not in advance. If pleased, keep puller. If not please in advance, it pleased, keep puller. If not please in advance is the please in the please WRITE! Pon't

is dependent on maturity, like most Such an organization, by sticking to a little standardizing here.

is canned soon after picking. A large conditions not now to his liking. percentage in normal years by the be neglected.

ers, of Beulah, Michigan, is an officer. sible per unit cost.

other fruits. They may be picked with business methods of protecting the lostems, pulled without stems, or clipped cal associations in making deals, can with stems of varying length. Hence be of much service. They could work differences in weight and keeping qual- through some already existing econimities. You may buy in sixteen or twen- ic organizations like the farm bureau tw-four- quart cases, in half bushels, or its affiliated branches. To reiterate and by the pound. There is room for start the ball rolling now for next season and get set on a program. It's Unquestionably the bulk of the crop the business of the producer to better

A mutual cooperative understanding housewife. Another method is by freez- of the growers representing over one ing up solid the fresh fruit and holding half of the sour cherries produced in in this manner in cold storage houses, the United States will be able to mar-It is then delivered to hotels, restau- ket the crop at as high a figure as the rants and pie factories as required, law of supply and demand will war-The amount dried is not large but this rant. The price received will be maintype of preservation seems promising. tained uniformly for the grades estab-Juice concerns take a great many and lished and guaranteed by such an asundoubtedly this demand will increase. sociation. And best of all, the grower Just which of these outlets should be can stop worrying about the most of most worked by an organization is his marketing problems. He will know questionable, but none of them could that the business is being done by experts at as low a cost as it can be per-There is now a National Cherry formed. He knows what this cost is Growers' Association, organized last and has a representative control. It spring, with Michigan, Wisconsin and will then become his big problem to New York representatives. A. J. Rog- produce quality stuff at the lowest pos-

## Transportation a Problem



HE farmer has suffered through lack of transportation facilities. Food products are worth nothing to of moving this year's crops of foodbe delivered to the market.

In our highly complex social system eryone is dependent upon the farmer. conduct of his business. Since 1915 the volume of freight handthe increase in number of freight cars amounts to only two per cent.

At the time that the government assumed control of the railroads the machinery and other necessities. freight car equipment aggregated approximately 2,400,000 cars. The maxi- late agriculture and would help to remum life of a freight car is twenty store normal conditions. years, therefore, in order to maintain this number of cars in proper condition, to say nothing of providing for additional needs, it is necessary to build at least 120,000 cars per year.

which the railroads were operated un- low and often it is just the time when freight cars were built which is some- buy all feed not raised on the farm necessary to maintain the customary of slack production usually occurs totay of usable cars.

find themselves requiring 260,000 new it lasts depends on the skill of the freight cars for immediate use.

process and will not solve the problem the winter.

producer nor consumer unless they can stuffs that have been stored in local warehouses since last season.

Until such a time as the railroads it is difficult to draw a clear delinea- are in a position to adequately handle tion between essential and non-essen- the situation, the only solution seems tial industries, but one thing is very to lie in the direction of granting a certain, and that is that agriculture is preferential treatment to all farm prothe hub about which all else revolves. duce held by the farmer for shipment, The farmer is dependent on many granting the same consideration to all phases of the manufacturing industry goods consigned to the farmer that to supply his needs, but absolutely ev- are required by him in the successful

Through such a procedure, foodled in this country has increased forty- stuffs now lying in remote rural warefive per cent. During the same period houses will become available for consumption and it will be possible for the farmer to get delivery on feed, seed, fertilizers, implements and farm

Such a plan would serve to stimu-

### ELIMINATE EARLY MOULTERS.

HE beginner with poultry soon finds that there is a time in the During the twenty-six months in fall when the egg returns become very der government control, only 100,000 feed bills are high and he wishes to what less than one-half the number and stack it up for winter. This period somewhere between August first and As a result of this, the railroads now December first, and the length of time poultryman. Why do the egg returns An increase in rates has been re-fall at this time? Because there are cently granted, but it will be months too many early moulting hens in the and even years before our transporta- flock which have ceased producing tion systems can be restored to their eggs. And the pullets are not the normal efficiency. At best, the rehab- early hatched birds that lay in the ilitation of the railroads will be a slow early fall and keep it up throughout

## A Practical Hog House

By Harley M. Ward

form a very important item of proper detail. to-date and sanitary hog house.

fifteen cents, good shelter is all the keep them in good condition. more important. The floor plans here Wood is the most commonly used beout the corn belt.

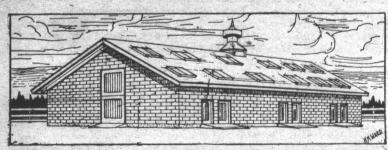
are twenty-four feet by thirty-seven be the same or higher. feet, six inches. It contains twelve

HE profits from the hog crop lustrates these different materials with

the total profits from many The hollow building tile is being used farms. These profits depend in large by a great many with very good remeasure upon the care of the hogs, and sults. On account of the dead air spacgood care of the hogs calls for an up- es in the tile, such a house will not freeze if there is stock in it, no matter Money put into a good hog house is how cold the air is outside. The hogs well invested under any circumstances, are more comfortbale in cold weather but when market hogs are up around and do not require so much feed to

shown illustrate a popular arrange-cause of the ease with which it is ment which is proving very satisfac- worked into a finished building. But if a tory on a great many farms through- wood building is constructed as warmly as one built of hollow tile or con-The outside dimensions of this house crete blocks the cost would possibly

The roof in all cases will be of wood



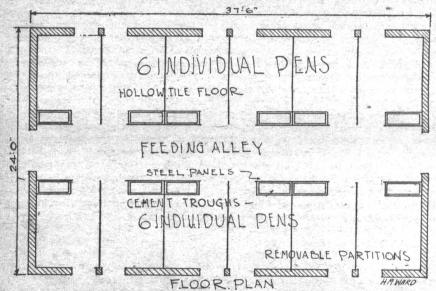
some with good results.

ward into the alley from each pen, so makes a very warm roof for winter use. convenience inside the building.

yards may be built on the outside for known, than plenty of bright sunlight.

separate pens each six feet by eight in and two-by-four number one yellow the clear, with an alley four feet, ten pine rafters, twenty-four inches on ceninches wide, running the full length of ter, sheathed with one-by-four roof the building between the two rows of boards, number two lumber spaced two pens. Practically all hog raisers have inches apart if wood shingles are used. agreed that a pen six by eight feet is If prepared roofing is used one-by-six large enough for a sow and her litter, dressed and matched boards should be indeed a five by eight-foot is used by used. A heavy three-ply prepared roofing covered with crushed slate will There is an outside door at each end give a good roof for twenty to twentyof the alley. Then a door opens out- five years without any attention. This

that the hogs may be separated and The metal roof windows let the sunmoved from one pen to another with shine strike every part of the building during the day. There is no better dis-Each pen is also supplied with an infectant for a hog house, no more outside door so that separate runs or efficient destroyer of disease germs



could have the use of the outside run Fresh air is also an essential feature and inside shelter at will.

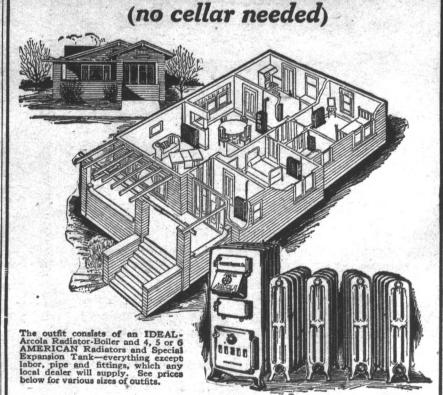
board doors would not then need to be the cold. closed except in very bad weather, or Such a house is especially adapted while the pigs are very small.

each. In decent weather this door Plenty of sunshine is better and cheapcould be left open so that the pigs er than buying medicine for the hogs.

These small doors should be twenty-ery farmer knows how soon the air in four inches wide and thirty-six to forty-two inches in the clear. In cold weather a piece of burlap or ducking hung when filled with hogs. Hence to insure at the top of the door, with a stick a healthy hogs some provision for venlittle shorter than the width of the door tilation must be made. This is providnailed across the bottom to prevent the ed for in the plan shown by two venwind from blowing it back, will help tilators. These ventilators are espematerially to keep the pigs warm. The cially valuable during the cold weather pigs will soon learn to lift the curtain in the winter when the doors and winwhen they want to go through. The dows are closed for protection from

for brood sows during the farrowing The walls of the building may be of season. Each sow and litter can be three materials: wood, hollow building provided with a separate pen and outtile, or concrete. The cost of these dif- side run, until the pigs are old enough ferent materials would be about the to be together in a large lot. The insame, provided, a good warm building dividual pens are also useful for weanis constructed. The cross section il- ing purposes. The pigs can be shut in Please Mention The Michigan Farmer When Writing Advertisers

IDEAL-Arcola Radiator Boiler Farm Home Heating Outfit



When the cost of your heating is figured on a yearly basis, the IDEAL-Arcola heating will be found to be the cheapest heat in the world, for it lasts forever-heats every room-uses no more coal than a stove, never needs repairs, is clean and easy to run. It gives you the same delightful warmth that city residences have.



### Shipped complete for immediate installation

The beauty of the IDEAL-Arcola method is that no cellar is needed. Everything is on one floor. The Arcola is placed in any room that has a chimney connection. No running to cellar. Same water is used over and over again for years. No

### Buy now at present attractive prices for outfits complete!

TDEAL-Arcola outfits consist of the boiler and radiators to heat various size houses. Write us your requirements! Unlike stoves, there are no coal-gas leaks in the living-rooms. The IDEAL-Arcola delivers the soft, radiant warmth of hot water—not the dry burnt-out atmosphere of stove heating. There is no fire risk to building—no danger to children—fire lasts for hours? The Arcola burns hard or soft coal.

Catalog showing open views of houses, with the IDEAL-Arcola Boiler in position will be mailed (free). Write today

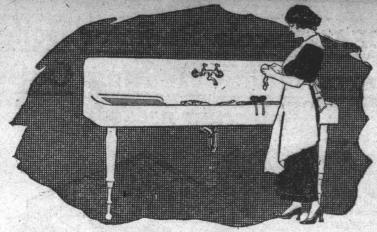
AMERICAN RADIATOR COMPANY Deepe

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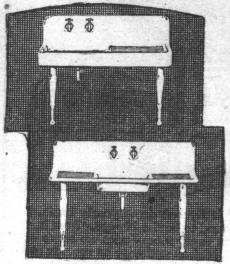








## Have More Pleasure In Kitchen Hours



Why not make the kitchen more attractive? Install a "Standard" One-Piece White Enameled Sink—have hot or cold running water ready instantly when wanted-save yourself that disagreeable trip of running out to the wellsave time in preparing meals and washing dishes.

You can install "Standard" Sinks in any home. Ask a Contracting Plumber or write us for color-printed catalogue of "Standard" Plumbing Fixtures for the Farm.

Standard Sanitary Mfg. Co. Pittsburgh



## Why Not Get Full Profits?

Analysis shows that more than one third of the nutriment of a corn crop is in the fooder. Only a small part of the nutriment in the fooder is ever actually used when handled the old way. It blows away, leaches away in the weather, is tramped under foot, and washed away. Fully one third of every corn crop so handled is therefore wasted.

### Use Your Fodder

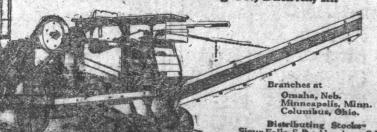
Put it into a sile or shred it into your loft, and you have it where it will be safe against weather and deterioration. Your stock will get out every ounce of good there is in it.

### The one Big saving you've overlooked

Use an Appleton Husker and Shredder or an Appleton Combination Husker and Silo Filler, for a year or two, and you will wonder how you came to pass up this big money saving all these years. Thousands of them in use, and every one showing a big annual profit. Put an end to fodder waste today by sending for our

FREE BOOK Ask for special information on stover silage, also free. Write nearest branch addressing Dept. 23.

Appleton Manufacturing Co., Batavia, Ill.



this pen and given special care during Altogether, this house has many adthe weaning period.

able and when the sows are through large or too small for the purpose of farrowing they can be removed and it any individual reader, he could follow can be used for two large sleeping the same plan of construction and fit floors for the shotes.

vantages which recommend it to the The partitions can be made remove average farmer. If the house is too the size to his individual needs.

## Federal Control of Packers

Farmer Representatives are Endeavoring to Unite on a Common Plan of Control

EPRESENTATIVES of the farm per cent in the holding company, but of solving the problem.

to protect the public. He believes that fendant packers." the federal government should guar antee to everybody who wishes to en- hearings before the committees early gage in the business of meat packing in the coming session of congress, and that the railroads own the refrigerator united efforts and wisdom of the live cars and stock yards, and be compell- stock interests, combined with the ed to furnish these facilities on equal great national farm organizations, to terms to large and small plants, re- meet the attacks of the well organizmoving all discriminating factors be- ed, experienced packer lobbyists and tween the producers, packers and con- attorneys, and secure action which sumers.

company, and will send a protest to to be followed during the committee Attorney-General Palmer against a hearings. mision the fifteen stock yards, includ- to operate." ed in the scheme, handle seventy-three all the yards in the country.

teen."

bodied in the plan provide for the re- icy of the board had been to regard tention of an interest less than fifty

organizations maintaining Wash- in no way indicate that this interest is ington headquarters, are holding to be other than permanent. At presconferences for the purpose of formu- ent the packer defendants show an lating a definite agreement and line of ownership in these yards that amounts action to be followed in regard to pack- to thirty-eight per cent of the total er legislation. They all are agreed that voting stock outstanding. The plan something must be done to regulate permits the defendants to hold up to the packing industry for the benefit of forty-nine per cent of the holding comproducers and consumers, but there is pany's stock. Furthermore, some of a difference of opinion as to methods the family estates, trust funds or members of the five packer families who The Farmers' National Council has are not defendants in this case, are presented a plan which would place nevertheless large holders in these the packers directly under the super- stock yards. The plan makes no provision and orders of a federal food vision for the divestment of the noncommission, but representatives of the defendant packer interests, nor to preother farm organizations are not in-vent further acquisition up to the comclined to give their endorsement to plete control or total ownership. The this proposition. Dr. T. C. Atkeson, non-defendant packer interests own Washington representative of the Na- seventeen per cent of the voting stock tional Grange, favors rigid government of the fifteen yards in addition to the inspection of meats and packing plants thirty-eight per cent owned by the de-

Packer legislation will be up for equal opportunities and privileges; it is evident that it will require the will meet the present needs of the All the farm organization representa- stock raisers. Probably the most urtives have voiced their opposition to gent need at this time is a united the packers' proposition to transfer the agreement of all friends of packer constock yards to a "dummy" holding trol legislation upon a definite program

transfer of the stock yards in any such Speaking of the Kenyon-Anderson manner. This is in line with the de- bill which provides for the creation of mand for rejection of the "big five" a commission to regulate the operapackers' scheme, made by the federal tions of meat packers through a systrade commission in a report to the tem of licensing, Gray Silver, Washattorney-general. The packers' plan, ington representative of the American which provides for the sale of the Farm Bureau Federation, says: "Unstock yards in fifteen cities to F. H. der this arrangement the handling of Prince & Company, of Boston, was op- stock yards, refrigerator cars, market posed by the commission on the reports, and all other features of the grounds that it would enable the pack- packing business would be under coners to increase rather than diminish stant supervision and inspection by their control of the stock yards. The employes of the commision and all unobject of the government litigation fair practices readily discovered. The would not be accomplished by the rulings of the commission could be enpackers' plan. According to the com- forced under penalty of loss of license

The live stock situation is in a bad per cent of all live stock received at way. This information was brought out, a few days ago, when a committee of live stock producers, including some HOUGH the decree provides for a of the leading cattle men of the west, total divestment of stock interest appeared before the federal reserve by the defendants," says the commis- board and asked for relief from what sion, "this plan leaves the way open was described as the impending defor them and the non-defendant packer struction of the live stock industry interests temporarily and for the non-through curtailment of loans. They defendant packer interests permanent- petitioned the board to enable and enly to acquire absolute control of a courage the banks of the federal reholding company that will own fifteen serve system to aid them financially principal stock yards of the in feeding and marketing their prodcountry, whereas now they have maducts. The committee predicted serious jority control of but eleven of the fif- consequences to the country and ruin of the live stock industry throughout "The amalgamation of the yards the west unless bankers and cattle through the promotion of Mr. Prince loan companies discontinue "calling" not only will be a greater monopoliza- loans. Millions of dollars in loans are tion of the stock yards business than maturing this fall, and it was the benew exists, but it contains elements to lief of the cattle men that a reassurstrengthen the packing house monop- ance from the beard that it approved oly until such time as the defendants credit extension by the banks would are divested of their stock in the hold- somewhat relieve the situation which ing company by order of the court. The now confronts the stock raisers. Govoffers of the contracting parties em- ernor Harding, in reply, said the pol-

(Continued on page 408).

## Lose 10 Bushels of Corn Out of Every 100 You Cribbed Last Year?

WERE you one of those who lost a big share of their corn last year? The U.S. Department of Agriculture says that 20% of the annual corn crop is lost between the time it is harvested and consumed. The farmer bears the biggest share of this loss.

Every farmer knows that it is practically impossible to store corn in wood cribs and old rail pens without a heavy loss—the older the crib the greater the loss. The farmer who uses the old wood crib lost fully 10% of his crop. Rats and mice wasted some of it; rain, snow and dampness spoiled some of it, and fire destroyed the whole crop in many cases. Think of it, at least ten bushels out of every hundred were lost. With corn and grain prices as high as they are, and prospects of going still higher, this old, out-of-date, wasteful method of storing your crops is pretty expensive. of storing your crops is pretty expensive.



How These Farmers Stopped
That Loss and Saved Hundreds of Dollars

Thousands of farmers have found that they can stop this big loss and make more money by storing their crops in Martin Steel "Corn-Saver" Cribs and Bins. These modern steel cribs provide clean, well ventilated storage for corn and grain and protect every bushel from loss. Safe from rats and mice—safe from mould core from from this and this way are from loss. mould - safe from fire and thieves - safe from loss of any kind. Read what these farmers have to say about them:

and the property of the control of t

"The Martin Crib saves money for its owner. It is positively rat, mouse and weather-proof. I don't have to carry fire insurance on it, My cousin gets big prices for every ear of corn put in his Martin Crib, as the germination has always tested around 94 to 36 per cent."

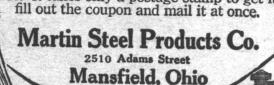
Prop. Crystal Springs Stock Farm, Headerson, Ky.

"Last fall I bought one of your Martin "Corn-Saver" Cribs. My neice and I set it up in a very short time. It has saved me many a dollar by protecting every bushel from loss and improving the corn by proper curing. I would not sell it for twice its cost if I could not get another. My only regret is that I did not buy a Martin Crib years before," R. H. Frise, Mt. Holly, O.



For This Big FREE Book
That Tells How You

If you want to save this 10 per cent of your corn and grain crops that are now being wasted and destroyed, then write for our big, new corn crib book. We will send it to you free and postpaid. It tells how Martin Cribs are built of corrugated galvanized steel and are rat-proof, fire-proof, bird-proof and thief-proof. It explains how their patented ventilating system keeps out all rain and snow, yet cures the contents perfectly—how their patented construction makes it possible for you to use the Martin Crib successfully for storing both corn and small croises such as wheat cots was thus getting two outer profits from small grains such as wheat, oats, rye, etc., thus getting two extra profits from your Martin Crib each year. It shows why Martin Cribs are cheaper than wood cribs, are easier to erect, and last a lifetime without repairs. Better write for your copy of this big, corn crib book today. Remember, it is free. It takes only a postage stamp to get it. Just



Send for Your Copy of This **Big FREE Book** In Use the

Coupon

FREE BOOK COUPON AARTIN STEEL PRODUCTS CO.

2510 Adams St., Mansfield, Ohio

Gentlemen: Please send me your big free book on lartin Steel "Corn Saver" Cribs and Bins, This does

Martinstel Cribs



Peter J. Lux, the Seed Corn "King" And His Martin Crib

"I think your Martin "Corn-Saver" Crib is the best crib built. If I build any more cribs, they surely will be your crib. I think that if corn growers throughout the Unit Sates used Martin Cribs for storing their corn, they would save over \$10,000 too worth of grain that is now being wasted and destroyed by rats, mice, fire and mould." PETER J. LUX, Shelbyville, Ind. Mr. Lux won the Grand Champion Sweepstakes Prize for seed corn last year at the international Show held in Chicago, Nov. 23th to Dec. 6th, 1919.



Live Stock Gain Faster and Thrive Better Where Martin Cribs Are Used

Where Martin Cribs Arc Uses Where Martin Crib, the series of the Martin "Corner" (The big "boost" all users of the Martin "Corner" (The big "boost" all users of the Martin "Corner" (The big "boost boost" all users of the Martin "Corner" (The big are it, is responsible for your getting my order.

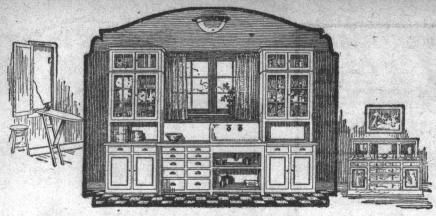
"I am feeding 150 hogs and since feeding from the Martin Crib, these are putting on more pounds of pork on a less ration of corn. I induct his situation to the prime condition in which the corp is kept. I will soon receive my order for another Martin Crib."

A. C. HOYT, Fostoria, Ohio.

The Only Metal Crib that Will Store Both Corn and Grain Successfully

sing two of your Martin Cribs. One of them I had full of wheat out, and filled it with corn. The other is full of oats now. For and grain, I do not know of any crib that is better than the ey are fire-proof, rat-proof and all the grain you put in, you at, "

R. R. POTTER, Ord, Nebraska.



### Isn't this the KITCHEN you have wanted?

HE attractive kitchen dresser illustrated There suggests the beauty and utility of all Curtis Woodwork. Curtis Woodwork throughout will add much comfort and character to the home you build.

Are you acquainted with the Curtis ser-

vice to those who are interested in Better Built Homes? If not, here is the oppor-tunity to find out all about this remarkable service, which is as available to you as your lumber dealer is accessible.

Curtis entrances, porches, windows, stairways, bookcases, sideboards, kitchen dressers, buffets, chests of drawers, clothes closets, and other permanent built-in furniture will give your home that charm you most desire. All Curtis Woodwork is created to be beautiful as well as convenient and economical, and has been designed by Trowbridge & Ackerman, New York architects.

Louden Litter Carrier

does away with back-straining wheelbarrow — carries manure

from barn to pit or spreader saves

one handling. Biggest labor saver

Louden 224-Page Catalog

sent prepaid — shows Louden Stalls and Stanchions, Litter and Feed Carriers, Water Bowls, Animal Pens, Hay Unloading Tools, Power

Hoists, Barnand Garage Door Hang-ers, Cupolas, Ventilators—"Every-thing for the Barn."

Write Us about your barn building plans. Our experts will help you. Get the Louden Barn Plan Book, a complete 112-page entryclopedia on barn building. Sent on request.

A boy operates it

on any farm.

easily and safely.

The Curtis Companies also retained Trowbridge & Ackerman to design over two hundred artistic, practical houses. Pictures, plans, and descriptions of them are offered you as the initial step in the selection of your new home. Ask your Curtis dealer to have us send you FREE a portfolio of "Better Built Homes."

If there is no Curtis dealer in your town, If there is no Curis dealer in your town, send 25c in stamps (50c in Canada) and the portfolio you desire will be sent you direct. Ask for "Better Built Homes" Volume VI, if you are interested in houses of three, four, and five rooms; Volume VII, for houses of six, seven, and eight rooms; Volume VIII, for houses especially designed for farm use. Get acquainted now with Curtis Woodwork and Curtis Service. with Curtis Woodwork and Curtis Service, so that when ready to build, you will not be overlooking the many possibilities that this woodwork and service offer you.

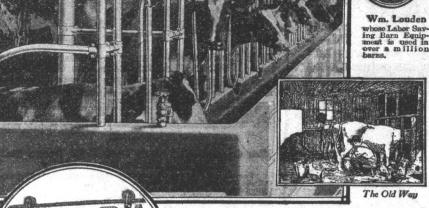
CURTIS SERVICE BUREAU, 4099-5099 So. Second Street, Clinton, Ia.

# WOODWORK

"The Permanent Furniture for Your Home"







Saves Half the Barn Work **Every Day** 

OES for the barn what machinery does for the field—releases man power—makes it possible for one man to do the work of several-helps solve farm hand scarcity.

Handling cows morning and evening, feeding and watering them, cleaning the barn, are jobs done with half the help when your barn is equipped with Louden Steel Stalls and Stan-chions, Litter and Feed Carriers, Automatic Water Bowls. You will find your barn more convena big increase in milk yield because of better health, greater comfort and regular watering. Easily installed at moderate cost in any barn.

The Louden Machinery Co.

THE LOUDEN MACHINERY CO. 1922 Court Street, Fairfield, Iowa Please send, postpaid, without charge or oblig the books checked below: Louden Barn Plans
Louden Illustrated Catalog

I expect to build (remodel) a barn about (date) Am interested in: Stanchions Stalla Water Bowls Carriers ... Hay Tools. Animal Pens Name Post Office

### Federal Control of Packers

(Continued from page 406). of almost \$1,000,000,000 this year.

IN reporting the results of its first cost of production investigation in the business of cattle feeding, the United States Department of Agriculture says that "cattle feeding in Nebraska during the past two years was a precarious venture, more likely to be unprofitable than not. The average cost of corn-fed cattle in Nebraska laid down at the market was \$14.91 per hundredweight for 2,293 head fed in the winter of 1918-19; in a survey study during the winter of 1919-20 it was \$13.83 for 3,041 cattle, and an average of \$13.39 for an additional loss per head of \$3.17 for the 1918-19 fed cattle, and of \$10.69 and \$14.57 on the two groups fed last winter. Similar investigations are being made in Illinois, Missouri, Iowa and Indiana, reports of which will be issued soon.

Indicating a tendency toward a of labor's bureau of labor statistics reout of a total of fourteen representative industries showed a decrease in roll in August as compared with July. creased ten per cent during this period. The same report also shows that twenty-seven of the forty-three stand-American homes decreased in price between July 15 and August 15. The retail price of potatoes fell forty-four publican platform in parallel columns per cent and the price of cabbage went sugar was fourteen per cent and most kinds of meat decreased in price.

Several leading national farm organizations represented in Washington, such as the American Farm Bureau Federation, National Board of Farm Organizations and National Grange, are doing effective work in the interests of farmers, and their representatives are men of high standing in congress and administration circles. They are deserving of the support of every are other organizations here claiming to represent the farmers, composed largely of a few self-appointed leaders, almost every proposed measure in which farmers are directly interested that comes before congress, and they ators.—E. E. REYNOLDS. manage to get their names prominently mentioned in the daily papers as the representatives of "tens of millions" of farmers. The "All-American the name has a familiar sound and its ports from the state bureau demands are mostly along the same Twelve county departments have alers are not only wasting their good outside of the county. bility of ever becoming laws.

ly passage of the French truth-in-fab- mirably adapted to Michigan soil.

ric bill. In New York, Ohio and other the live stock and other food-produc- eastern states where the sheep raisers ing industries as vitally essential, and are organized in county and state wool he added that while the board could growers' associations, the merits of not compel loans by any banks, it had the bill have been conspicuously adplanned with the reserve banks for aid vertised at the fairs. While there are for the farming interests to the extent several other branding bills before the congressional committees, the leading wool growers have decided to make their fight for the French bill and are urging all farm organization representatives to confine their efforts to pushing this bill. If there is a member of congress who has not heard of the French truth-in-fabric bill, it is probable that there are no live, progressive wool growers in his district.

THE American Farm Bureau Feder ation Washington office is making considerable progress with its arrangements for developing the custom manufacturing of woolen blankets and suitings. The replies from woolen manufacturers are favorable to this proposition, indicating that if they can secure enough raw wool to make it worth while they will be willing to work it up for the farmers into yarns, blankets and fabrics of various kinds, on a custom or toll basis. As the farm folks are consumers of wool to the exslackening in industry, the department tent of two-thirds of the total wool production of the country, it will be seen ports in its industrial survey that ten that a general movement of this kind would not only give the farm folks a supply of woolen goods at cost of prothe number of employes on the pay duction, but relieve the market of a vast quantity of wool. It is suggested The number of employes in the auto- that county associations and state fedmobile manufacturing industry de- erations of wool producers that are pooling wool, could make arrangements with a woolen mill to manufacture a part of the wool in the pool for ard articles of food consumed in the the members to the advantage of both producer and manufacturer.

The digest of the democratic and rewith the fourteen planks of the Amerdown forty-one per cent. The drop in ican Farm Bureau Federation, together with a summary of pending agricultural legislation, sent out to the State Farm Bureau by Gray Silver, Washing ton representative of the federation, is receiving much attention from farm leaders and the farm press. It is explained by Mr. Silver that this is a strictly non-partisan, though political, educational activity undertaken now for the first time by organized agriculture. It is intended to give the platforms as they relate to agriculture side farmer. It is also true and quite gen- by side, without comment or partisan erally understood by those who are bias, allowing the reader to make his familiar with the situation, that there own interpretations. The outline of pending legislation of special interest to the farmers gives them a comprehensive idea of the bills to be acted who are persistently meddling with upon during the coming session of congress, and will enable them to vote intelligently for congressmen and sen-

#### FARM BUREAUS PROMOTE BET. TER SEEDS.

Farmer-Labor Cooperative Commission" is one of a large number of socalled farmer organizations making there are plans under way for the strenuous efforts to force itself into forming of a seed department which the front line of public attention. I will work under contract with the seed am unable to connect this organization department of the Michigan State with the Farmer-Labor party, although Farm Bureau, according to latest re-

lines. These organizations may be sup-ready been organized. They have ported by a following of farmers, as made the State Farm Bureau their they claim. If so, their farmer follow- sole agent for purchasing field seed

money, but actually hindering the This state-wide organization is poolenactment of practicable farm legisla- ing its orders of seed and dealing dition by aiding in the promotion of a lot rect with growers and large concerns of crazy schemes and visionary propo- of the country, demanding absolute sitions which lack the remotest possi- guarantee as to purity and variety. Alfalfa growers of Idaho and South Da-Reports that are being received in kota have contracted to sell direct to Washington indicate that the farmers the Michigan State Farm Bureau much all over the country are becoming there of their surplus seed this year. Since oughly aroused to the need for the ear- this seed is northern grown, it is ad-



Dependable Paints may cost a little more in the package — but they are cheapest in the end. Delaying to paint adds to ultimate painting and repair cost; neglect means decay from hard weather wear. It's better to save the surface now than to save the pieces later.

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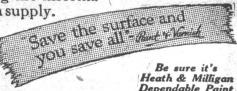
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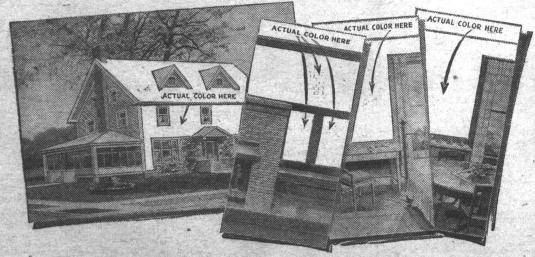
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Present color
Color of adjacent houses
Amount of foliage
Direction building faces
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Color of draperies
What finish of furniture?
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# CostsLess ThanaGood Stove

# Get Our Wholesale "Direct-to-You" Price on This Pipeless Furnace Save Money in Buying—Save More in Simple Installation

Put your heater in the basement. Think of heating your whole house with one fire—warm air coming up through one register in the living room floor. Think of getting rid of the muss of carrying fuel and ashes through the house. Think of saving the job of setting up stoves in the fall and taking them down again in the spring. Think of doing all your home heating from the basement with a heating plant that actually costs less than a good stove!

That's exactly what you can do with this Kalamazoo Pipeless Furnace. You get a complete warm-air heating plant with a simple, easy plan of installation. And you get it direct from the manufacturers at the wholesale price.

Here is the greatest money saver in a home heater that we believe has ever been offered. It has saved hundreds of thousands of dollars for Kalamazoo customers. It has provided greater comfort throughout the home and it has saved fuel bills too.

"First time we ever had the whole house warm" says one customer. "We no longer roast in one room and freeze in the rest." Another customer writes: "We have an eight-room house and every

Another customer writes: "We have an eight-room house and every room is a warm room. My hat is off to you as manufacturers of a pipeless furnace that really does the business. Also want to say that this is the first winter that we have ever kept the vegatables in the cellar from freezing."

### Write for the Kalamazoo Catalog

How will you heat your home this winter? Let us answer the question for you. Let us send you this big Kalamazoo Catalog and tell you how Kalamazoo Pipeless Furnace owners everywhere are saving money and living in warm homes. John J. Wagner of Ritsville, Washington, saved \$200.00. He states: "Others asked me almost

\$200.00. He states: "Others asked me almost three times the price of a Kalamazoo." Jos. L. Rudolph of Duffy Mawr, Pa., says: "I figure that I saved exactly \$95.00 and I am entirely satisfied."

### Why You Save Money

Because you deal direct with Manufacturers. You get wholesale "Direct-to-You" prices. You get the results of years of experience in furnace building—you get a simple, easy plan of installation with a wonderfully well-built furnace.

You save at least from 25 to 40 per cent and you get a heating plant that will burn any fuel and last for years of satisfactory service.

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Let us send you this book free. No obligations. Simply find out what "A Kalamazoo-Direct-to-You" means for you. This is your year to save money. It's our year to help you do it.

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Ask for Catalog No. 909

Kalamazoo Stove Co.

Manufacturers

Kalamazoo, Mich.



## WORLD EVENTS IN PICTURES



Miss Violet Oliver will decorate President Wilson as "Knight of the Raisin," in publicity campaign of raisin growers.

The University of Prague sends these Czecho-Slovak girls to the United States for study.



Even the women of the Island of Rapa understand that the road to a man's heart is through his stomach.



Friends consulting with sister of the Lord Mayor of Cork, who is hunger striking in Brixton prison.



Sinn Feiners and Unionists rioting in York St., Belfast, Ireland, with clubs and bricks. The Unionists in the foreground are shown driving back their opponents.



A bucking machine used at the training camp of Columbia University to put her gridiron warriors in shape for a strenuous season.



contest!

AT least one of the stores in your neighborhood will have a window display of Colgate's Ribbon Dental Cream. These windows will be ready to photograph begin-ning October 1st.

Anyone not over seventeen years of age may try for generous money prizes, which will be given for the best photo-graphs of a Colgate display.

### \$1005.00 in Prizes

Look for a store window with the Colgate pictures and packages in it. The dealer will gladly let you take a picture of his window.

Look on the back covers of some of the October magazines where you will find all the rules of the contest. Or write to Colgate & Co., Dept. 44, 199 Fulton Street, New York, for particulara

Ask an older friend who takes pictures or the man from whom you buy films to advise you how to photograph windows. Taking pictures through plate glass is a tricky operation and

one that you may never have tried before.

And let parents remember, too, that by encouraging the boys and girls to enter this unique contest, there is not only added zest to Kodak-ing, but a fresh interest in the importance of brushing the teeth regularly, night and morning. The delicious flavor of Ribbon Dental Cream is an important help in forming that habit for health

### 115 CASH PRIZES

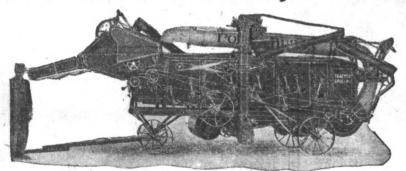
Enter your photographs In the contest, for which prizes will be awarded as follows:

For the best photograph . . . \$100 For the 3 next best . . \$50 each For the 10 next best . . \$25 each For the 101 next best . . \$5 each

Prizes will be awarded before January 1st, and winners will be announced in an early 1921 issue of this magazine. In case of a tie, each will receive the full value of the prize tied for.

Colgate's-the safe dentifrice-is indorsed by more dentists than any other dentifrice,

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seeds and grain, (including clover, timothy, alfalfa, peas, etc.) and is fully guaranteed the same as our standard size threshers.

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This machine has good capacity and can be operated with any small steam engine, or gas tractor.

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Horse or Cow hide. Calfor other skins with hair or fur on, and make them into coats (for men and women), robes, rugs or gloves when so ordered. Your stands a will cest you less than to buy the control of the cast of the control of the cast of the

## The God of Battles

Our Weekly Sermon-By N. A. McCune

the following message to all the ships Prayer makes a difference. Prayer at 6:00 p. m. tonight, for the victory the same God. which Almighty God has vouchsafed "God fights on the side of the bigmended to do the same."

1918, Field Marshal Haig was at the religious services one Sunday morning. When the chaplain had concluded the service, the commander-in-chief of Great Britain's forces went up to the chaplain, thanked him for his mes-General E. H. H. Allenby, the deliverer of Jerusalem and the Holy Land after a thousand years of Turkish misrule, Dieu." (The good God, sir, the good time to the study of the prophetic portions of the Bible. Just before the Palestine campaign began, General Allenby attended a prayer meeting in Cairo, to ask the divine blessing on the arms under his command. He makes no secret of his joy and satisfaction of being the deliverer of ancient Canaan. He and his attendants prayer. entered Jerusalem on foot, the day after it surrendered. General Pershing's attitude on things religious is well

draws on. A large proportion of them a general of the French army. His are religious men as a life habit. The curiosity was aroused and he sat down late Lord Roberts said he had conduct- in the church and waited for the gened family worship every day for fifty eral to come out. The man remained years. Lord Fisher, another of Brit- in the kneeling attitude for three-quarain's sea fighters, loves sermons. When ters of an hour. Then he arose, and, he was a captain, a visitor called one accompanied by one orderly, passed Sunday morning. "The Captain has down the street. Evans followed. He gone to Berkeley Chapel," said the ser-noticed that soldiers saluted this man vant. "Will he be in this afternoon?" in great excitement. Women gazed at "No, he said he was going to hear Can-him in reverence. Children tagged af-on Liddon at St. Paul's." "Well, then, ter him. Evans inquired and learned this evening?" "In the evening he is going to Spurgeon's Tabernacle."

Someone has said that man is "in- give some time to prayer every day. corrigibly religious." Whether that be so or no, the religious instinct comes itary success?

FTER the return of the British out of its hiding into the open, when ships to home waters following the thunder of guns and the cries of the signing of the armistice, Sir the dying are heard. Moreover, these David Beatty, from the flagship, sent commanders believe that prayer helps. of the Grand Fleet: 'It is my inten-"changes things." They do not give tion to hold a service of thanksgiving up prayer because the enemy prays to

our arms, and every ship is recom- gest battalions," said Napoleon with a sneer. But that was before his Rus-During the German push in March, sian campaign. That was before those little white messengers of judgment, the snowflakes, fell and smothered his army, and turned him back a defeated man. God did not fight on the side of the biggest battalions in the Battle of the Marne, when a thin line of Frenchmen held back the Teuton hordes. It sage, and then said, "Remember, chap-has not been explained yet why the lain, the battle is not ours, but God's." Germans did not go on toward Paris, save the explanation of a French offi-

> Abraham Lincoln, General "Stonewall" Jackson, Robert E. Lee, General Gordon, the hero of Khartoum, all believed that prayer to the God of the Bible helped in the day's fighting. Lincoln told General Sickles that he considered Gettysburg an answer to

Marshal Foch is another notable example of the praying fighter. Private Evans, of California, wrote his parents that he saw a man in an old shiny uniform enter a battered church, and Some way, these fighting men turn kneel in prayer. By the eagles on his instinctively to God as the battle collar, Evans knew that this man was that it was Foch. He also learned that it had been Foch's habit for years to

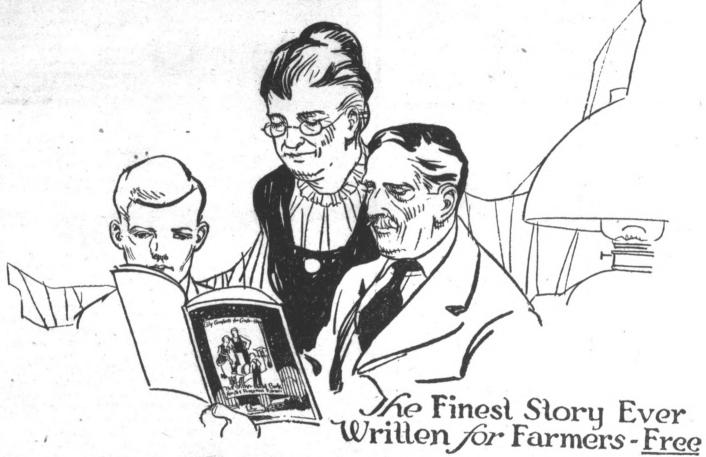
Is this one explanation of Foch's mil-











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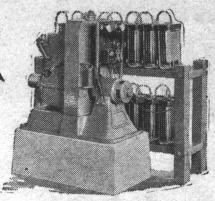
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In addition, a Litscher Lite plant will illuminate your farm with brilliant electric light and make possible the most modern electrical conveniences. The Litscher Lite plant offers you stationary engine power and stores electric current at the same time. It consumes the same amount of kerosene fuel to light your house as with the old-fashioned lamps. Operates without attention and gives perfect service and satisfaction.

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## THE VALLEY OF THE GIANTS

A ROMANCE OF THE REDWOODS

By Peter B. Kyne

receivers.

Napier."

'Will he tell anybody?"

"Not if you ask him not to."

"Not even you?"

Shirley."

over. Thank you so much, Bryce Car- condition. digan. You're an awful good old sort,

"Let us not argue the question, Shir- smells danger just the same." ley. I think I have my redwood trees

protected. Good-bye."

ing his home to instruct George Sea desk for several minutes. Then: Otter to report with the express package to Shirley when Buck Ogilvy strolled into the office and tossed a "Fine business! Well, I guess we'll document on his desk. "There's your put in that crossing tomorrow night.

to send the switch-engine in until the back to Sequoia."

following afternoon. The Colonel was "Yes," Buck agreed, "I" think he sorry, but the switch-engine was in would." the shop having the brick in her firemake room.

manded pointedly.

the rails!"

"I know it. him in again."

'It does. You place the contraption of the shop," Bryce replied resignedly, -hide it, rather—in the room where and hung up. He turned a troubled the conspirators conspire; then you face to Ogilvy. "Checkmated!" he anrun wires from it into another room nounced. "Whipped to a frazzle. The where the detectives listen in on the Colonel is lying, Buck, and I've caught him at it. As a matter of fact, the "Could George Sea Otter install it?" mogul didn't kick those flats in at all. "I think he could. There is a print- The switch-engine did-and I know it. ed card of instructions, and I dare say Now I'm going to send a man over to George would find the job no more baf- snoop around Pennington's roundfling than the ignition-system on the house and verify his report about the switch-engine being in the shop."

He did so, Half an hour later the messenger returned with the information that not only was the switch-en-"Not even a whisper to himself, gine not in the shop but her fire-box had been overhauled the week before "Very well, then. Please send him and was reported to be in excellent

"That settles it," Buck Ogilvy mournafter all. Really, it hurts me to have ed. "He had gum-shoe men on my to oppose you. It would be so much trail, after all; they have reported, and nicer if we didn't have all those red- the Colonel is as suspicious as a rhino. wood trees to protect, wouldn't it?" He doesn't know anything, but he

"Exactly, Buck. So he is delaying the game until he can learn something He had scarcely finished telephon- definite." He drummed idly on his

> "Buck, can you run a locomotive?" "With one hand, old man."

little old temporary franchise, old The switch-engine will be in the roundthing," he announced; and with many house at Pennington's mill tomorrow a hearty laugh he related to Bryce the night so we can't steal that; but we ingenious means by which he had ob- can steal the mogul. I'll just send tained it. "And now if you will phone word up to my woods-boss not to have up to your logging-camp and instruct his train loaded when the mogul comes the woods-boss to lay off about fifty up late tomorrow afternoon to haul it men to rest for the day, pending a down to our log-landing. He will exhard night's work, and arrange to plain to the engineer and fireman that send them down on the last log-train our big bull donkey went out and we to-day, I'll drop around after dinner couldn't get our logs down to the landand we'll fly to that jump-crossing ing in time to get them loaded that Here's a list of the tools we'll need." day. Of course, the engine-crew won't "I'll telephone Colonel Pennington's bother to run down to Sequoia for the manager and ask him to kick a switch- night—that is, they won't run the moengine in on the Laurel Creek spur and gul down. They'll just leave her at snake those flat-cars with my rails our log-landing all night and put up aboard out to the junction with the for the night at our camp. However, main line," Bryce replied. And he if they should be forced, because of called up the Laguna Grande Lumber their private affairs, to return to Se-Company—only to be informed by no quoia, they'll borrow my track-walker's less a person than Colonel Pennington velocipede. The fireman would prefer himself that it would be impossible that to firing the big mogul all the way

"There is a slight grade at our logbox renewed, while the mogul that landing. I know that, because the air hauled the log trains would not have leaked out of the brakes on a log-train time to attend to the matter, since I was on a short time ago, and the the flats would have to be spotted on train ran away with me. Now, the enthe sidetrack at Cardigan's log-land- gine-crew will set the airbrakes on the ing in the woods, and this could not mogul and leave her with steam up to be done until the last loaded log-train throb all night; they'll not blow her for the day had been hauled out to down, for that would mean work firing her in the morning. Our task, Buck, "Why not switch back with the mo- will be to throw off the airbrakes and gul after the log-train has been haul- let her glide silently out of our loged out on the main line?" Bryce de-landing. About a mile down the road we'll stop, get up steam, run down to Pennington, however, was not trap- the junction with the main line, back ped. "My dear fellow," he replied pat- in on the Laurel Creek spur, couple ronizingly, "quite impossible, I assure on to those flat-cars and breeze meryou. That old trestle across the creek rily down to Sequoia with them. They my boy-it hasn't been looked at for will be loaded waiting for us; our men years. While I'd send the light switch- will be congregated in our dry-yard just engine over it and have no fears- off Water Street near B, waiting for us "I happen to know, Colonel, that the to arrive with the rails-and bingobig mogul kicked those flats in to load we go to it. After we drop the flats, we'll run the engine back to the woods And what happened? and leave it where we found it, return Why, that old trestle squeaked and a-flying on the velocipede, if it's there, shook and gave every evidence of be- or in my automobile, if it isn't there. ing about to buckle in the center. My You can get back in ample time to engineer threatened to quit if I sen: superintend the cutting of the crossing!"

"Very well. I suppose I'll have to "Spoken like a man!" quoth Buck wait until the switch-engine comes out Ogilvy. "You're the one man in this world for whom I'd steal a locomotive. 'At-a bov!"

Had either of the conspirators known of Pennington's plans to entertain Mayor Poundstone at dinner on Thursday night, it is probable they would not have cheered until those flat-cars were out of the woods.

### CHAPTER XXIX.

AYOR POUNDSTONE and his wife arrived at the Pennington home in Redwood Boulevard at six-forty-five Thursday evening. It was with a profound feeling of relief that His Honor lifted the lady from the modest little "flivver," for once inside the Pennington house, he felt, he would be free from a peculiarly devilish brand of persecution inaugurated by his wife about three months previously. Mrs. Poundstone wanted a new automobile. And she had entered upon a campaign of nagging and complaint, hoping to wear Poundstone's resistance down to the point where he would be willing to barter his hope of salvation in return for a guarantee of peace on earth.

"I feel like a perfect fool, calling upon these people in this filthy little rattletrap," Mrs. Poundstone protested as they passed up the cement walk toward the Pennington portal.

Mayor Poundstone paused. Had he been Medusa, the glance he bent upon his spouse would have transformed her instantly into a not particularly symmetrical statue of concrete. He had reached the breaking-point.

"In pity's name, woman," he growled, "talk about something else. Give me one night of peace. Let me enjoy my dinner and this visit."

"I can't help it," Mrs. P. retorted with asperity. She pointed to Shirley Sumner's car parked under the porte cochere. "If I had a sedan like that, I could die happy. And it only cost thirty-two hundred and fifty dollars."

"I paid six hundred and fifty for the rattletrap, and I couldn't afford that," he almost whimpered. "You were happy with it until I was elected mayor."

"You forget our social position, my dear," she purred sweetly.

He could have struck her. "Hang your social position," he gritted savagely. "Shut up, will you Social position in a sawmill town! Rats!"

"Sh—sh! Control yourself, Henry!" She plucked gently at his arm; with her other hand she lifted the huge knocker on the front door.

"Dammit, you'll drive me crazy yet," Poundstone gurgled, and subsided.

The Pennington butler, a very superior person, opened the door and swept them with a faintly disapproving glance. It is possible that he found Mayor Poundstone, who was adorned with a white string tie, a soft slouch hat, a Prince Albert coat, and horseshoe cut vest, mildly amusing.

The Poundstones entered. At the entrance to the living-room the butler announced sonorously: "Mayor Poundstone and Mrs. Poundstone."

"Glad to see you aboard the ship," Colonel Pennington boomed with his best air of hearty expansiveness. "Well, well," he continued, leading Mrs. Poundstone to a divan in front of the fire, "this is certainly delightful. My niece will be down in two shakes of a lamb's tail. Have a cigarette, Mr. Poundstone."

In the midst of the commonplace chatter incident to such occasions, Shirley entered the room; and the Colonel, leaving her to entertain the guests, went to a sideboard in one corner and brought forth the "materials," as he jocularly termed them. James appeared like magic with a tray, glasses, and tiny serviettes, and the Colonel's elixir was passed to the company.

"To your beautiful eyes, Mrs. Poundstone," was Pennington's debonair toast as he fixed Mrs. P.'s green orbs with his own. "Poundstone, your very good health, sir."

"Dee-licious," murmured Mrs. Pound-

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Sold everywhere at

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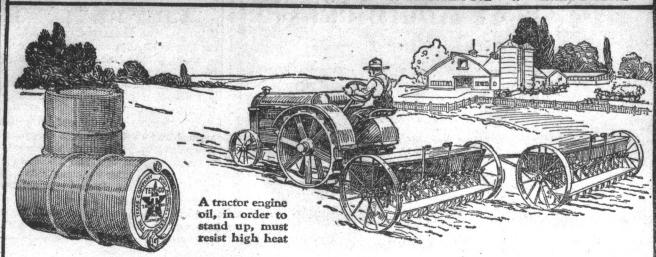
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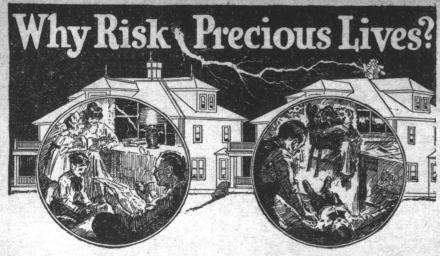
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stone. "Perfectly dee-licious. And not ing, "what do you hear with reference a bit strong!"

"Have another," her hospitable host road?" suggested, and he poured it, quite oblivious of the frightened wink which onel. Nobody knows what to make of the mayor telegraphed his wife.

"I will, if Miss Sumner will join me," Mrs. P. acquiesced.

and one is always my limit," Shirley he admitted presently. "But while it replied smilingly.

Mrs. P. would not discuss automobiles their time about it." during the dinner.

not unduly fortified, but for all that, closest to her heart.

the walk bow greatly I envied you that official." beautiful sedan, Miss Sumner," she

Mrs. Poundstone," he struck in with a was over. pathetic attempt to appear humorous and condescending, "that a little jitney dare say." was our gait, and that she might as and resign yourself to the inevitable." ious glance.

"Never, my dear, never." She shook

"Yes, indeed," said Shirley inno-

day, Colonel," Poundstone remarked, finances." hoping against hope to divert the con-

"Yes. The fellow's own fault," Pennington replied. "He was one of those like a whip, and-'

on wishing, one is bound to get it."

"My dear," said Mr. Poundstone impressively, "if you would only confine will!" yourself to wishing, I assure you your brighter."

There was no mistaking this rebuke; munity. Of course you do." even two cocktails were powerless to render Mrs. Poundstone oblivious to it. very mature thought, Colonel, but in lady flush slightly; they caught the appear that you are quite right." glint of murder in his honor's eye; and "Of course I am right. I take it, the world, Shirley adroitly changed the at all." subject to some tailored shirt-waists Mrs. Poundstone subsided.

About nine o'clock, Shirley, in regot down to business.

to the Northern-California-Oregon Rail-

"Oh, the usual amount of wind, Colthat outfit."

Pennington studied the end of his cigar a moment, "Well, I don't know "Thanks. I seldom drink a cocktail, what to think of that project either," looks like a fake, I have a suspicion "Oh, well," the Colonel retorted that where there's so much smoke, one agreeably, "we'll make it a three-cor- is likely to discover a little fire. I've nered festival. Poundstone, smoke up." been waiting to see whether or not They "smoked up," and Poundstone they will apply for a franchise to enter prayed to his rather nebulous gods that the city, but they seem to be taking

"They certainly are a deliberate Alas! The Colonel's cocktails were crowd," the mayor murmured.

"Have they made any move to get the two which Mrs. Poundstone had as- a franchise?" Pennington asked bluntsimilated contained just sufficient ly. "If they have, I suppose you would "kick" to loosen the lady's tongue with- be the first man to hear about it. I out thickening it. Consequently, about don't mean to be impertinent," he adthe time the piece de resistance made ded with a gracious smile, "but the fact its appearance, she threw caution to is I noticed that windbag Ogilvy enterthe winds and adverted to the subject ing your office in the city hall the other afternoon, and I couldn't help wonder-"I was telling Henry as we came up ing whether his visit was social or

"Social-so far as I could observe," gushed. "Isn't it a perfectly stunning Poundstone replied truthfully, wondering just how much Pennington knew, Poundstone made one futile attempt and rather apprehensive that he might to head her off. "And I was telling get caught in a lie before the evening

"Preliminary to the official visit, I

The Colonel puffed thoughtfully for well abandon her passionate yearning a while-for which the mayor was for a closed car. Angelina, my dear, grateful, since it provided time in something tells me I'm going to enjoy which to organize himself. Suddenly, this dinner a whole lot more if you'll however, Pennington turned toward his just make up your mind to be real nice guest and fixed the latter with a ser-

"I hadn't anticipated discussing this a coy finger at him. "You dear old matter with you, Poundstone, and you tightie," she cooed, "you don't realize must forgive me for it; but the fact is what a closed car means to a woman." —I might as well be frank with you— She turned to Shirley. "How an open I am very greatly interested in the opcar does blow one around, my dear." eration of this proposed railroad."

"Indeed! Financially?" "Yes, but not in the financial way "Heard the McKinnon people had a you think. If the railroad is built, it man killed up in their woods yester- will have a very distinct effect on my

"In just what way?"

"Disastrous."

"I am amazed, Colonel."

"You wouldn't be if you had given employes who held to the opinion that the subject very close consideration. every man is the captain of his own The logical route for this railroad is soul and the sole proprietor of his own from Willits north to Sequoia, hot from body-hence that it behooved him to Sequoia north to Grant's Pass, Oregon. look after both, in view of the high cost Such a road as the N. C. O. contemof safety-appliances. He was warned plates will tap about one-third of the that the logging-cable was weak at that redwood-belt only, while a line built in old splice and liable to pull out of the from the south will tap two-thirds of becket-and sure enough it did. The it. The remaining third can be tapped free end of the cable snapped back by an extension of my own loggingroad; when my own timber is logged "I hold to the opinion," Mrs. Pound- out, I will want other business for my stone interrupted, "that if one wishes road, and if the N. C. O. parallels it, I for a thing hard enough and just keeps will be left with two streaks of rust on my hands."

"Ah, I perceive. So it will, so it

"You agree with me, then, Poundchances for success would be infinitely stone, that the N. C. O. is not designed to foster the best interests of the com-

"Well, I hadn't given the subject Shirley and her uncle saw the mayor's the light of your observations it would

the keen intelligence of each warned therefore, that when the N. C. O. apthem that closed cars should be a clos- plies for its franchise to run through ed topic of conversation with the Sequoia, neither you nor your city Poundstones. With the nicest tact in council will consider the proposition

"I cannot, of course, speak for the she had observed in the window of a city council-" Poundstone began, but local dry-goods emporium that day, and Pennington's cold, amused smile froze further utterance.

"Be frank with me, Poundstone. I sponse to a meaning glance from her am not a child. What I would like to relative tactfully convoyed Mrs. Pound- know is this: will you exert every efstone upstairs, leaving her uncle alone fort to block that franchise in the firm with his prey. Instantly Pennington conviction that by so doing you will accomplish a laudable public service?"

"Well," he queried, apropos of noth- Poundstone squirmed. "I should not

care, at this time, to go on record," he replied evasively. "When I have had time to look into the matter more thor-

"Tut-tut, my dear man! Let us not straddle the fence. Business is a game, and so is politics. Neither knows any sentiment. Suppose you should favor this N. C. O. crowd in a mistaken idea that you were doing the right thing, and that subsequently numberless fellow-citizens developed the idea that you had not done your public duty? Would some of them not be likely to invoke a recall election and retire you and your city council—in disgrace?"

"I doubt if they could defeat me, Colonel."

"I have no such doubt," Pennington replied pointedly.

Poundstone looked up at him from under lowered lids. "Is that a threat?" he demanded tremulously.

"My dear fellow! Threaten my guest!" Pennington laughed patronizingly. "I am giving you advice, Poundstone-and rather good advice, it strikes me. However, while we're on the subject, I have no hesitancy in telling you that in the event of a disastrous decision on your part, I should not feel justified in supporting you."

He might, with equal frankness, have said: "I would smash you." To his guest his meaning was not obscure. Poundstone studied the pattern of the rug, and Pennington, watching him sharply, saw that the man was distressed. Then suddenly one of those brilliant inspirations, or flashes of rare intuition, which had helped so materially to fashion Pennington into a captain of industry, came to him. He resolved on a bold stroke,

"Let's not beat about the bush, Poundstone," he said with the air of a father patiently striving to induce his child to recant a lie, tell the truth, and save himself from the parental wrath. "You've been doing business with Ogilvý; I know it for a fact, and you might as well admit it."

Poundstone looked up, red and embarrassed. "If I had known-" he began.

"Certainly, certainly! I realize you acted in perfect good faith. You're like the majority of people in Sequoia. You're all so crazy for rail-connection with the outside world that you jump at the first plan that seems to promise you one. Now, I'm as eager as the others, but if we are going to have a railroad, I, for one, desire the right kind of railroad; and the N. C. O. isn't the right kind-that is, not for the interests I represent. Have you promised Ogilvy a franchise?"

(Continued next week.)

### Sunshine Hollow Items

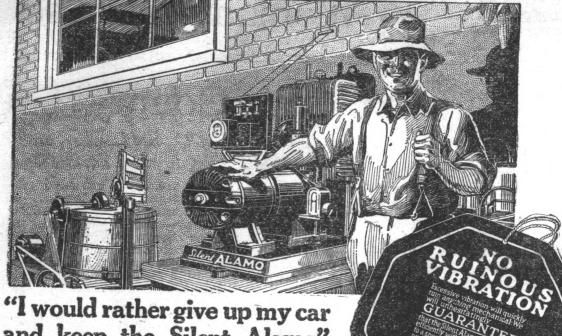
Ry Rube Rubicon

Oscar Putnam always seems to get more done than his brother Simon. When the kids hid the milk stools, Simon fussed around for half an hour. Oscar just inverted a feed bucket and milked all his share of the cows and half of Simon's. That's just the way with Oscar about everything. Folks say that he is going to amount to something but Simon would starve to death if he couldn't work Oscar for most everything he gets.

Israel Lambert says there is something sort of nice about a farm. And Israel has grasshoppers, rheumatism and a mortgage. But he likes birds, fresh air, friendly cows, and lots to eat, and says you can get most everything on a farm that rich city fellows spend thousands to buy at country

Sunshine Hollow farmers try to do the best they can with what they have. If the only food raised was produced by farmers with absolutely ideal equipment you could take a census of most cities by counting the folks in the bread lines.

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Additional Poultry Ads. on Page 419

**POULTRY** 

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## The Perfect

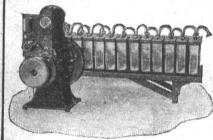
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## Woman's Interests

## St. Clair County Tour

Under the Guidance of County Leaders, we Find Inspiration in Visiting Modern Farm Homes

ed that day and neither driver let such convenient and easy to work in. trifles as freshly worked roads, or ocand they did it, just as they are put- Brody and Miss Edna Smith, home sure tank in the basement sends the

ting through their work in the county, with energy and good nature, and a wholesouled determination to make the grade, whatever the obstacles.

The drive started in Port Huron, picking up autoists as they swung down the road by the river until when St. Clair was reached fourteen autoists carrying eighty tourists were ready for the visits of inspection. From St. Clair the drive was inland, past fields of corn and grain, old orchards and flourishing gardens, to the home of Mr. and Mrs. Carl Eisen, of St. Clair

the tour of 1919.

been raised and a second story put sponsible hands. into a kitchen, and the room which did timate of the probable time spent in A drive of ten miles into the south-

F the extension workers of St. Clair bathroom as well as four bedrooms. A county carry on their work with the feature of the bedrooms worthy of same energy and utter unconcern note was that all the rooms has crossthey drive through the county, unpar- Eisen explained, the carpenter absoalleled success cannot fail to crown lutely refused to put in another wintheir labors. Certainly nothing could dow in spite of her pleas for more air. equal the perfect abandon with which A deck, or upstairs porch, is to be ad-County Agriculturist C. L. Brody and ded, for airing bedding and shaking Miss Clara Waldron, the home agent, rugs. Below this will be a shed with day when the Farm Bureau of St. Clair living-room and bedroom have been county made its second annual farm thrown together into one large livingdemolished speed laws, of course. But end The house has been remodeled

casional bad spots caused by recent party to Belle River, just out of Mar-power washing machine, which she rains, alter the time schedule. They ine City, where a picnic dinner was runs by means of the gas engine. Of were in the game to put it through, served. Following the dinner Mr. course, there is running water, a pres-

Power washing machines have robbed washday of its terrors for Power washing machines have robbed washday of its terrors for many women, but electricity and gas engines are not within the reach of every farm woman's pocketbook. Most of them, however, can afford a hand-power machine, and there are two good ones which have been tried and recommended by the housekeeping experts of the Michigan Agricultural College. Detailed information regarding these machines can be secured by writing Miss Ruth Kellogg, East Lansing, Michigan.

township. Mr. Eisen is secretary of agent leader, made short talks. Mr. Mrs. Wesbrook says the work is easier to grow selfish or failure will follow, and women. To the women in the party the din- as it has followed every organization

stairway torn out and this space made chart on which she had outlined an es- hatch.



chines, and all real labor-saving de-

vices which the pocketbook can afford. The next farm visited, that of North Wesbrook, exemplified the value of took the road on the morning of the a sink, where the men may wash. The household machinery. Mr. and Mrs. Wesbrook have recently moved into a handsome brick residence, thoroughly home convenience tour. Not that they room, with an open stairway at the modern, and with the exception of there were certain miles to be travel- with the one end in view, to make it of the city. Electricity is to come as soon as the power company are ready, A drive of a few miles brought the but already Mrs. Wesbrook has her

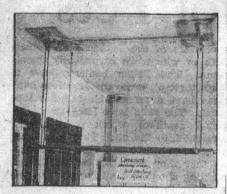
> water to all parts of the house. There is a bathroom on the second floor and a toilet on the first. A vacuum cleaner cleans the rugs, hardwood floors make cleaning easy. Hot water heat, and loads of windows which insure the sun and air which the eight Wesbrook children need to keep them rosy, are other desirable things. feature of the house is the cabinets for china, built beneath the pillars between the dining-room and livingroom, and similar cases for books in the living-room pillars. The house is large, but

the farm bureau for his township and Brody pointed out how the farm bu- here than in the smaller house witha leader in farm bureau work. The reau, first organized to help the farmer out its modern helps. O. E. Robie, of farm home has been completely made solve his problems, has developed into the Michigan Agricultural College, exover during the past year as a result a business organization, and warned plained the water system and the sepof the inspiration they received during his hearers that it must not be allowed tic tank to an interested crowd of men

The poultry farm of Joseph Brening-room and kitchen were the points which worked only fer self. The buner, Jr., in China township, was full of of greatest interest. Last year the reau must make as its chief object the interest to the poultry raisers. Mr. house consisted of living-room and bed- development of the individual into a Brenner has four hundred birds, and room across the front, a room which well-rounded character and a superior is just now gathering two hundred served as kitchen and dining-room citizen if it is to fulfill its highest pur- eggs a day. He has three poultry housback of the living-room, and to the pose, according to Mr. Brody. A plea es—has just completed one thoroughly right of this a small pantry, stairway, for boys' and girls' work as the best modern and explained his method of and a little room used as storeroom, foundation for the future of agricul-ventilating the building. A special or upstairs cellar. This part of the ture and as the greatest assurance that house shelters his incubator, which house had a shed roof. The roof has future problems of state will be in re-holds 3,600 eggs. It is divided into six hundred-egg sections, and Mr. Brenner over it, the pantry, storeroom and Miss Smith exhibited an interesting plans to have two sections a week

duty as dining-room and kitchen as the different forms of housework. She west corner of the county brought the well now serves as dining-room alone. allowed two and a half hours to three party to the farm of H. J. Vogt & Son, Between the kitchen and dining-room hours for meals, two hours for dish- in Casco township near Adair. Here are well constructed cupboards, with washing, an hour for care of bedrooms, interest centered in nineteen acres of a sliding wall panel which permits pas- a half-hour for "straightening up," and as fine corn as can be found in Michisage of supplies from room to room. A one to two hours for care of the chil- gan. Messrs. Brody and Robie exthoroughly modern sink is on the end dren, as work which must be done plained that the stop was made to wall by the cupboard, so dishes may daily. In addition there is the laundry show the advantage of tile draining. A be washed and stored without extra work with three to five hours for wash- year ago the field was undrained. In steps. The house is not entirely fin- ing and two to four hours for ironing, the spring one sank in the bog up to ished as labor conditions reach build- one to three hours for mending, five or the knees. The Vogts, father and son, ing as well as farming. Water is in- six hours for special cleaning, and four decided to tile drain it and, following Mention The Michigan Farmer When Writing Advertisers stalled and the upstairs is to have a hours for special baking. The farm the advice of the extension worker,

laid the tile three and a half feet deep and five rods apart. The work cost \$75 an acre, but the result has been so satisfactory that the owners are planning to drain eighty acres more this fall. The corn on this field was in excellent condition, while in an undrained field adjoining, it turned yellow after a late rain. Five hundred



A good clothes rack which can be pulled up to the ceiling out of the way when not in use; it may be used to dry wet clothes in winter or to hold the ironing. The rack is strong and well built, and is also recommended by the college.

and forty-eight barrels of water run out of the drain every twenty-four hours, according to an estimate made by Mr. Vogt.

The last stop was to have been at the home of Mrs. Ida Quick, but owing to a confusion in dates the family were not at home. Here a dumb waiter and other kitchen conveniences have been

### BE SURE TO REGISTER

If you have not registered, do it now. You must be registered by October 16th, if you want to vote for President in November.

### WHY DOES MARY LIE?

A certain mother who was much surprised that her small daughter lied very frequently and seemingly without cause, would have been filled with shame had she recalled how often she had said to her maid in the child's hearing, "Tell Mrs. Blank that I am

The right home training is the greatest force for morality. The character of the individual is determined by the way in which it is begun.

Were the right influence, example and environment given to all children there would be no need for reformatories; a verbal pledge would be as binding as a written one and the name of the profiteer would not be upon ev-

### FOR CLEANING DAY.

Every housewife knows how the oven of an oil stove rusts and that if it is not properly oiled or greased every week or so it will soon wear out. If a little lime is sprinkled on a board and placed in the oven after baking it will absorb all the steam and prevent the rust from forming.-Mrs. J. J. O'C.

To make a good home-made duster, soak pieces of soft flannel in paraffin oil over night, wring out well and wash in lukewarm rain water. This will gather up all the dust and leave a good polish on floor and furniture.-M. A. P.

Dampen the dusting cloth with equal parts of turpentine and kerosene to brighten up the dullest furniture.-Mrs. J. J. O'C.

I use plaster of Paris to set nails in walls when the nails seem loose, and for a variety of other uses, but used to be troubled by the mixture becoming stiff and unworkable before I was through with it. A builder once told me to mix a little vinegar with it to THE SIGN OF



QUALITY

## The Best Food Known is Baked from Flour

No other food compares with the breadstuffs baked from flour. As far back as we know some kind of flour has been the staple food of the nations. Next to it is rice. But flour always has been and always will be the food reliance of most of the people of the world.

"The Flour the Best Cooks Use"

is an example of the possibilities of modern milling to convert raw wheat into a perfect flour. The ancients never knew flour as we know it. Science has shown how to get the most nutriment out of the wheat grain. The milling processes employed in making LILY WHITE are the most advanced known in the world today.

In the first place it is cleaned four times, scoured three times and washed once before going on the rolls for the first break. Second, only the best part, the heart of the wheat grain, is used in LILY WHITE. Next the raw material is made flour by the "six-break system"—scientific, thorough, LILY WHITE is never touched by a human hand-is even sacked automatically. No flour surpasses it in uniformity, texture, color. Everything baked from it is flavory, appetizing, tender, white and delicious. Makes equally good bread, rolls, biscuits and pastry.

Try LILY WHITE. It is guaranteed. Your dealer has it.

### VALLEY CITY MILLING CO.

GRAND RAPIDS, MICHIGAN

"Millers for Sixty Years"



Lookforthe

ROWENA trade-mark

on the sack

A Fashion Necessity Every stylish wemen is wearing a fur soart with her coat, suit, steems or waist. It is appropriate for every occasion. This seart in made of a grautine Manchurian Fox, which has long, soft, slity hair. It is a large animal shape near? with head at one and mid tall at the other. Lines throughout with an all-sik listing; also has slit redic around the nock. Very longs and graceful. A fac of this kind will won for yours. Colored Black, Lucils Brown or Tempe Gray. Soud Now Just your name and address—no pay the posteron Color weekey. When the fur searf arrives, pay the posteron Color. We have paid the transportation charges. Won't the searf—if you don't the posteron that you expect, return it and we will observely regard your money at once. This is our risk, net yours. Be sure and give color. Green by No. 19.

Walter Field Co. 2100, Michigan Ave., Chie The Bargain Mail Order Mouse

White Chinese Geese keep it in a plastic condition.—E. C. White Pekin Ducks, R. C. Br. Leghorns. Order early.

Mrs. CLAUDIA BETTS, Hillsdale, Mich.



HOOSIER STOVE CO. 131 State St., Marion, Ind.

POULTRY

BARRED ROCKS. Park's 200-eag cooker-els which will produce fine Invers next year, \$8 calc. R. C. KIRBY, R. I. Past Lansing, Mich.

### Whittaker's Red Ceckerels

Both cembs. Special discount on early orders, white for Price Mist.
BOTH LAKES FARM, Bex 29. Lawrence, Mich. Cockerals and Hons: Legherns. Minoreas, Cam pinec, Reds, Recks. Orpingbens, Brah-mus, Wyandettes. Tyrone Positry Farm. Fonton, Mich Fowler's Built Recks. We are new healting or coolerels left. B. B. FOWLER, Rayllard, Mich.

Chiver Lord Seiden and White Topondotte.
Re had smility only \$6.75 per is \$605 parter in parcost, post. 6. W. Ernandon, \$15. Perfen

for Saio Bigh quality S. C. Ancenas, 28 yearling hens. 10-early pellets, 1 winning cock, 1 cockerel, \$75.00 takes them all and many of the females are winners.

O. O. STERLING, R. 3, Hillsdale, Mich.

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Name "Bayer" identifies genuine Aspirin introduced to physicians in 1900. Insist on unbroken packages of

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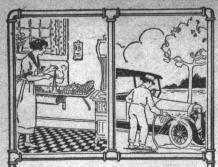
Aspirin is the trade mork of Bayer Manufacture of Managerticasidester of Salicylicasid

Single Comb White Leghorns Cockerels from our exhibition metines April hatched \$5.55 aach. Four fine contributes \$5.00 tagen.

Rhode Island Whites Are the best all purpose Birds being year round layers. Egg and olders and a few good males.

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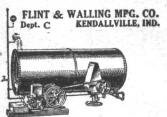
### Running Water Under Pressure

is the first requisite that you may have a truly modern home. It will save needless pumping and carrying of water by hand.

### HOOSIER Water Service

enables you to have running need for it. Any power may be used.

Bulletin F, showing Hoosier Systems and water supply accessories, will be sent you on request. Should you contemplate improving your home don't fail to get a copy.









## Our Boys' and Girls' Department

## Raising Bantams for Pets

more fun than any other pets I ever kept, and I have had a considerable cooking. They are usually very good some. experience with creatures of different kinds in fur or feathers. It isn't worth while to bother with mongrel bantams, but if you can find well-bred birds, they will prove a constant delight. There are many different kinds, and the smaller you can get them, the better. Some kinds, like the Plymouth Rocks and the Brahmas, are simple pocket editions of the larger breeds of the same name. Other kinds, like the Seabrights, the Japanese, and the Booted Bantams, are wholly different from fowls of any other kind.

The Seabright bantams are among the kinds in which boys delight. They are exceedingly diminutive, weighing only about 25 ounces. The Seabright cock is a perfect little dandy. His made has very pert, independent ways, but the rooster, with his smart, high-spirited air, is about the most amusing bird in all the poultry kingdom. He struts about as though he were lord of all he surveyed, instead of being such a tiny bit of flesh and feathers that you could almost crush him in your hand, or hide him in your pocket.

It's a curious fact that both the hens and the roosters have feathers that are faced exactly alike. Moreover, the shape of the two sexes is almost identical, both having wide spreading tails and wings which point to the ground just back of the legs. There are both golden and silver Seabrights. one having plumage of golden yellow while the other has silvery white feathers. With both, each feather is evenly and distinctly laced all around with a narrow edging of lustrous black.

I am telling all these things about the Seabrights because they are among the most interesting of all fowls, and every boy ought to know about them. They are really a made breed. That is, they were deliberately worked out by an Englishman, Sir John Seabright, for whom they were named. For 30 years this man devoted much of his time to mating and breeding bantams in order to produce a certain fixed type. The Seabrights are good pets for boys, and so are the Cochin and the Brahma bantams. In fact, these two just named are probably the best breeds for boys to start with, because they are very hardy, do part in the exercises. not mind cold weather, and are very easy to handle.

Perhaps more Cochin bantams are kept than any other kind, and any boy may well be glad to own a little flock of well bred birds. They weigh only about 30 ounces, and with their deep, plump, well-rounded bodies, short legs, and abbreviated necks, they look like little feather balls. Their legs are covered with feathers, which extend so low that they completely hide the feet. Altogether they should be miniature duplicates of larger Cochins. If you prefer Brahma bantams, you

will find them almost as handsome and just as small. There are both the light and dark Brahmas, and while they are not as pert as the Seabrights, they have a very engaging and friendly manner. In fact, few bantams will allow as much handling as the Brahmas.

There is one distinct advantage in keeping the larger bantams like Cochins, Brahmas and Plymouth Rocks because they lay eggs which, while small, are still large enough to use for By E. I. Farrington

them pay in eggs for all the feed they ment. enjoyment you get working among

Sometimes men who raise pheasants are glad to buy bantam Cochin hens



A Seabright Bantam Cockerel.

to use as mothers. In fact, the bantam Cochins are famous as sitters, and oftentimes several hundred are larger fowls, they are so small that to be found in little coops scattered they do very little damage, and oftenover game farms, sitting on the eggs times they can be given the run of the of the different wild birds.

named include most of those which own rations during the summer. I the rarer bantams, they can get a few bestowed upon them.

specimens of the Japanese or Polish. both of which are exceedingly hand-The Polish bantams have a layers, too, so that if you raise ban large topknot, while the Japanese bantams of these breeds, you can make tams have a remarkable tail develop-The tails have long, swordlike consume. Of course, you would be sickel feathers which point almost glad to contribute your time for the straight into the air. They also have very large combs and very short legs, so that they seem almost as though walking about in a sitting posture. Altogether they are to be classed as one of the curiosities of the bantam

> Being so diminutive, bantams require only a small house. In fact, a few bantams can be kept readily enough in a dry goods box or a piano box. It is important, though, that the house be dry and free from draughts. It need not be especially warm, if sheltered from the winds. It is much more important to have plenty of fresh

> Feed your bantams just as you would older hens, except that you should give them only cracked grains, and should avoid over feeding. It doesn't take very much grain and mash to keep bantams in good condition. Don't forget to give them some green stuff in addition to the grain, and keep fine oyster shells and grit where they can get at them at all times.

While bantams will scratch like garden or the lawn, in which event Probably the breeds which I have they will pick up a large part of their boys should choose for pets, at least know of few pets which require so litwhen they first start out as fanciers, the care, and which give as many re-Later, if they want to raise some of turns as do bantams for the attention

## Boys and Girls There First

Watch Them, See if This is Not True-By Uncle Ed

 $\Gamma^{
m HE}$  farmers of a certain county in the front ranks. No slackers, no held a picnic not long ago. One laggards among them. They are wide thing those who had their eyes open awake and ready to take advantage of noticed, and that was that the boys every situation. There is this good and girls were first on the ground, thing about the matter. When these When things began to be done they young folks come to take their places were there, ready to see and to take on the farm as owners and managers

and begin really to do business, things If you will give this matter some at- are bound to hum. Another thing is tention, you will find that it is almost true. There is room for every single universally true. Boys and girls are one of these live boys and girls right



on the farm. They are needed here, too, far more than they are anywhere else in the world.

### Her Seven Toes.

A LITTLE chap tells me that he has a kitten which has seven toes on each of her front feet. By the way, did you ever think how many your kittens have? And did you ever see a cat that had seven toes on her hind feet? We would really like to know about that. But what I am interested in now is whether that seven-toed-er, as the boy calls his kitten, catches more mice than do the kittens with only five claws. And the boy tells me she does. That she is the greatest kitten to catch mice they ever had on the farm.

If that is so, then we can see that the seven toes amount to something. No use having an extra allowance of resources of any kind unless you make good use of them. A boy might have a dozen knives in his pocket, but if he kept them there, they would not do him much good. It is the use we make of our time, our talents and our strength that counts for most. What do you do with yours?

#### THE BEAR THIEF.

S the bear descended the mountain A the warm September sun began to met the snow and it slipped from the overhanging branches to splash upon the leaves and rocks below; this she did not like, for, by the force of its fall, it drove its chill moisture into her coat, so she sought a small meadow on a flat surrounded by trees, where the sun shone warm," writes Charles L. ("Grizzly") Smith in an article on "The Grizzly Bear at Home," in Boys' "Her unerring nose led her to a small mound of fresh earth beneath the snow, with one sweep of her paw she brushed the snow aside and disclosed a small hole in the ground. This was the home of a Columbia ground squirrel and from early in July he had been industriously collecting and storing roots for winter use. He had dug a hole deep into the rocky soil going down at a steep angle for a distance of about three feet, then to one side for a few inches then on an incline up for about eighteen inches, then off again on a level where he had evacuated a large area capable of holding a peck or more of edible roots. He had then dug a small tunnel to one side of this granary and evacuated another round compartment the size of a man's hat which he filled with dry shredded grass, to form a warm dry wall; this he used as a bedroom.

"The bear by long experience knew the internal arrangements of the little squirrel's domicile and of the plentiful store of roots to be had at a minimum of labor, so she set to work at once to despoil the little fellow of his hard earned stores. She tore at the tough sod and roots and broken stones, making a large hole and finally reaching the treasure. The little store was incomplete, yet she found it ample to repay her for the labor expended, for it would have taken hours to have located and dug each of these roots for herself. After she had cleaned out the little storehouse and caught and eaten her benefactor, she went on down the mountain."

Edgar Holly only had forty acres of Edgar Holly only had forty acres of land and when he told folks about it, but the state of the s they said, "What a dinky little place, how do you make a living?" So he bought 200 acres of swamp land nearby and it didn't cost much and it's not any good now. It increases his taxes but not his income. Now he says he has 240 acres of land and city folks say, "What a fine big place, you must do pretty well in these days when kings Ezalia of Ean Claire at A. R. cow. food is so profitable." Edgar says that but not his income. Now he says he food is so profitable." Edgar says that folks often go daffy on acreage but don't care a whoop about how much a fellow makes on each acre.



### **BREEDERS' DIRECTORY**

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

## Wildwood Farms Angus

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

Our herd is under State and Federal Supervision.

### WILDWOOD FARMS

ORION, MICHIGAN

W. E. SCRIPPS, Prop.,

Sidney Smith, Supt,

### WOODCOTE ANGUS

Imported Herd Bulls ELCHO OF HARVIESTOUN (45547) by Jason of Ballindalloch (38048) EDGARDO OF DALMENY (45501) by Escort of Harviestoun (36006) Woodcote Stock Farm, Ionia, Mich.

SPRING DELL FARM GUERNSEYS For sale; Choice of two bulls two and three years old; also bull calves three to twelve months. Registered. Splendid individuals and breeding. Prices right. WHITE BBOTHERS, R. 2, Box 20, La Porte, Indiana.

Pure bred Guernsey bulls from one to four weeks old. Registered 330, not registered 325. Orders shipped in rotation received No excuse for scrub bulls. WALTER PHIPPS FARM, 89 Alfred St. Detroit, Geo. B., Currie, Mgr.

For Sale: Guernsey bulls from 3 months to 6 months old. Their sire is DOTTIE'S PRINCE No. 44696; his dam has an official yearly record of 647 lbs. butter fat.

J. BYERS, Coldwater, Mich.

CUERNSEYS—Federal Inspected. Headed by only son of Carrie of Hillhurst, exchampion of A. A. class. 5 bulls under 10 mos., 1 a dandy whose dam in class D has given over 50 lbs. milk No females to spare. G. W. & H. G. RAY, 4 mi. east of Albion, Mich.

GUERNSEY BULL CALVES whose 18,460.20 milk, 909.05 fat. Their mother's sire's dam made 15,109.10 milk, 778.80 fat.

N. HICKS. Battle Creek, Mich.

Registered Guernseys a 6 months old bull (100%) satisfaction for \$100. A nice heifer calf \$150.

J. M. WILLIAMS, North Adams, Mich.

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

FOR SALE Registered Guernsey heifers, yearlings and calves.
E. A. BLACK, Route 3, Howard City, Mich.

GUERNSEYS Registered Guernsey Bulls for sale. GEO. N. CRAWFORD, R. 2, Holton, Mich.

### Paid in milk for Purebred Holsteins

The Reveille, Bellingham, Wash., reports that the Pacific Condensary Co., sells high-grade Holsteins to the ranchers at cost, taking payment in milk.

The company needs more milk and by introducing Holsteins expects to make dairying a profitable industry, thus increasing the acreage in dairy farms as well as the milk output per average cow. Just another instance of the standing of Holsteins among business men.

Send for free Illustrated Booklets. They contain valuable information for any Dairyman.

THE HOLSTEIN-FRIESIAN ASSOCIATION 164 Hudson Street Brattleboro Vermont.

31.06 lb. butter 571.46 lb. milk in 7 days, is average of 9 nearest tested dams of 2 mc. old bull. Price \$150. Terms.
M. L. McLAULIN, Redford, Mich.

### -WinnWood Herd-

Flint Maplecrest Boy No. 166974 Has Made Good

one of his SONS will raise your herd to a higher standard and better production we have them for sale at moderate prices.

### A Few Females For Sale

-OUR JUNIOR HERD SIRE-Sir Ormsby Skylark Burke No. 264966 brother to the world champion cow over all

A brother to the world champion cow over all breeds, DUCHESS SKYLARK ORMSBY Michigan's best bred Ormsby bull. Better get on the list for one of his sons out of a daughter of Flint Maplecrest Boy.

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

Long Distance

HOLSTEINS.
HERD-SIRE
FIVE dams av. 1186 lbs. butter and 24711 lbs. milk in
lyr. Bulls all sold. State and Federal Supr.
A. FLEMING. Lake, Mich.

OUR HERD SIRE Model King Segis Glista

By a 30 lb. son of Lakeside King Segis Alban De Kol. His dam Glista Fenelle 32.37 lbs. Her dam Glista Er-nestine 35.96 lbs. His three nearest dams average over 38 lbs and his forty-six nearest tested relatives aver-age over 30 lbs. of butter in seven days. Write for pri-ces on his sons.

Grand River Stock Farms Cory J. Spencer, Owner Eaton Rapids. ich.

### TOP NOTCH"

HOLSTEINS

McPHERSON FARMS COMPANY
has raised many great milk cows:
1 Officially Produced 842 lbs, milk in 7 nilk cows:
394 lbs. milk in 7 days
394 lbs. milk in 80 days
120 lbs. milk in 1 days
121 lbs. milk in 1 days
121 lbs. milk in 7 days
over 10000 lbs. milk in 100 days
105 lbs. milk in 1 days
2669 lbs. milk in 7 days
100 lbs. milk in 30 days
100 lbs. milk in 10 days
100 lbs. milk in 10 days

20854 lbs. milk in 1 year
100 lbs. milk in 1 day
100 lbs. milk in 1 day
100 lbs. milk in 1 day
100 lbs. milk in 1 days
100 lbs. milk in 1 year
100 lbs

### The Traverse Herd We have what you want in BULL CALVES, the large,

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

TRAVERSE CITY STATE HOSPITAL Traverse City, Mich.

## Introduction

Mr. Dairy Farmer, Mr. Holstein Breeder Meet KING FLINT

ALL THREE are working to a common purpose—to increase the production of Michigan Dairy berds.

We believe all three should work together.

We feel sure that no Michigan bull has ever been better equipped for the work.

We have it on high authority that there are none better individually.

His three nearest dams each averaged to produce 100 lbs. butter and 2100 lbs. milk per month for a full lactation period with an average of 3.85 fat.

His dam is one of Michigan's greatest family—three full sisters that have produced over 30 lbs. butter in seven days, two of them producing over 700 lbs. milk, and two of them producing more than 1000 lbs. butter and 21000 lbs. milk in ten months.

ten months.

His sire is the direct descendant of three generations of 30 lb. cows and two generations of 1220 lb. yearly record cows.

His first three sisters to enter yearly test will each produce more than 800 lbs. butter and 17000 lbs. milk as helfers.

Let King Flint Help You Improve Your Herd Through One Of His Sons

A son of this great young sire suited to head any herd in Michigan, grade or purebred, can be secured in Genesee County and we want them all to stay in Mirhigan.

Write us about your herd, tell us what you need and what you feel you can afford to pay and let us help you find just what you want in Genesee County, the center of Michigan's long distance dairy cattle.

Genrida Farm

Elmcrest Stock Farm G. L. Spillane & Son Co. Clio, Mich.

## BULL CALVES FOR SALE

From dams with good records.
BULL CALVES SIRED BY 45 Ib. BULL.
BULL CALVES SIRED BY 34 Ib. BULL.
BULL CALVES SIRED BY 33 Ib. BULL.
PRICES VERY REASONABLE.
Privalence of returns if not estimated.

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A. W. COPLAND, Birmingham, Michigan.
Herd under State and Federal Supervision.

## Cluny Stock Farm

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

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

### R. Bruce McPherson, Howell. Mich.

Sell or Lease I have five registered Holstein-Frie-from 8 to 4 months old, "King Ona" strain. Will sell or let out for two years without charge, you to use for Jeeding and then return to me J. C. MORRIS, "Morris Hills Farms" Mt. Morris,

We Have, on our Ranch at Clare, several fine from \$50.00 up. Will furnish pedigrees. The records back of each individual are good. Address WILLIAM C. CORNWELL, Saginaw Mich,

Holstein Friesian heifer and bull calves, purebred registered and high-grade. Price \$20 up. Splendid individuals and bredeing. Write us your requirements. Browncroft Farms, WacGraw, N. Y.

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

### Holsteins of Quality

for sale, Heifers from 8 to 24 monts old. All regis-tered and sold subject to tuberculin test. E. A. HARDY, Rochester, Mich

BARGAIN PRICES on pure bred Holstein heifers and young bulls ready for service. JOSEPH H. BREWER, Grand Rapids, Michigan

For Sale <sup>4</sup> Holstein heifers, 3 2 yrs. old, 1 3 yrs. old, 1 with calf by side others to freshen later from heavy producers 450 takes them all.

E. S. NASH, R. 3, Howell, Mich.

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

20 Cows and Heifers of popular breeding for sale also bulls not related.

ALLEN BROS.

Herefords. Just purchased 3 new herds, now have either sex, horned or polled, any age. Priced reasonable. THE McCARTYS, Bad Arc. Mich.

Herefords: 4 Reg. bulls 5 to 8 mo. old. Prices reasonable for quick sale visitors welcome. Reed Schultz, R. 3, Homer, Mich.

## HEREFORI

D. S. Polled Herefords Herd headed by Renner Bullion. 815933. (18242) so grand champion Bullion 4th. For Sale—A few good polled and horned cows bred to this great bull. Also three fine bull calves not related to him. Correspondence solicited. Cole & Gardner, Hudson, Mich.

## SHORTHORN SALE

40 - - HEAD - - 40

Good, High Class Registered Cows. Heifers and Bulls

INCLUDING A FEW COWS OF THE DUAL PURPOSE OR MILKING STRAIN

This sale will be held under the auspices of the Southern Michigan Shorthorn Breeders' Association

All stock is sold on consignment from members of this Association and is of a quality which commands attention

## Hillsdale, Mich.

FAIR GROUNDS

Tuesday, Oct. 5, 1920

For Particulars and Catalog Address

John Southworth, Sec., Allen, Mich. ANDY ADAMS, Sales Manager and Auctioneer

## Holstein Dispersion Sale Chaslen Farms

24 registered and 48 grade Holstein cattle will be sold at eleven o'clock, Thursday October 7 at Chaslen Farms three miles from Northville, Mich. Pure bred Holsteins consist of 12 cows that will be fresh at date of sale or heavy with calf, 9 heifers under one year of age and 3 young bulls fit for service.

Grade Holsteins consist of 42 cows under six years of age, a majority of which will be fresh or heavy with calf at date of sale, balance heifers under one year of age.

One 2800 lbs. pair of mules, full brothers 4 and 5 years of age and 4 horses

Farmers desiring a herd boar will find 200 Duroc Jersey swine on the farm to make selections from. 10 head of pure bred Shorthorn bulls will be priced right at private sale.

## Thursday, October 7 C. H. & L. A. YOUNG, Props. Northville, Mich.

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.

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

For Sale Jersey bull calves of Majesty breeding from ment "Accredited List." Write for price and pedigree to C. A. TAGGETT, R. 2, Fairgrove, Mich.

Registered Jersey bull calves of pleasing type, backed by high production. Priced very low. quality considered. C. S. BASSETT, Kalamazoo, Mich.

Jerseys For Sale, Register of Merit Smith and Parker, Howell, Michigan.

Lillie Farmstead Jerseys <sup>2</sup> R. of M. bull calves, one year old this fall.
O. C. LILLLIE, Coopersville, Mich.

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

## **SHORTHORNS**

a bull that will put weights on your dairy calves-the difference will soon pay for the bull. Now selling good Scotch and Scotch-topped yearlings, reasonably priced. A roan senior yearling, a Missie of Villager breeding, a herd bull prospect, Federal Test.

BIDWELL STOCK FARM, Tecumseh, Michigan

### We Now Have

### Richland Shorthorns

Imp. Lorne, Imp. Newton champion and Sterling Supreme in Service. We offer for quick sale: Five Scotch Bulls, best of breeding. Three whites at \$1000 each One roan at \$500, one red at \$400. No females for sale. Public sale Chieago Oct. 28th.

C. H. PRESCOTT & SONS,

Tawas, City, Mich.

### Hogging Down Corn By A. L. Bibbins

C HORT of help? "Well, hardly," says one of our southern Michigan farmers. "I have fifty good hired men who will profitably handle a fair portion of my corn crop. Not only will they husk the corn, but also haul and crib it, and at the same time put some good manure back on the land for me. Best part of the deal is that they are not charging me a cent for their labor either. While they are working with the corn I will be getting a lot of next spring's work out of the way."

A lucky man, you may think. Perhaps so, but there are thousands more just like him, for with ten or more hogs on the farm, one may harvest considerable of the corn crop at a comparatively low expense, which if judiciously managed will at the same time produce a good amount of pork.

With the present day market situation confronting us it is important that we place our hogs on the market at the lowest cost possible. Husking corn and hauling it to the feed lot will produce pork, however, this requires considerable labor which is rather scarce and too high-priced for the returns received on the present market. Such a practice cannot be termed as the cheapest and most efficient.

Experience a Good Demonstration.

In the past the practice of hogging down the corn has often been scorned by many Michigan farmers and termed 'a lazy man's trick." Corn belt farmers and several agricultural experiment stations have utilized this system of producing pork and report very favorably concerning it. Substantial daily gains with little man and horse labor involved have convinced many growers of the soundness of taking advantage of the willingness of hogs to husk their own corn.

It is not so much the question of producing more pork to the acre but rather one of producing the most at the lowest cost. Hogging down the corn appears to be the answer to the problem, especially if we consider the value to the other crops of the labor saved in handling the corn harvest.

Advantages.

The advantages to be gained from hogging down corn may be briefly summed up under three heads. First of all, and one that is of utmost importance at the present time, is that the practice is ideal from a labor-saving standpoint. Every farmer is aware of the amount of man and horse labor that is required to cut, husk, haul and crib corn, and then feed it out to the hogs in the pen. The expense of these operations may be largely saved and at the time of the year when there is usually a great rush of out-of-door work.

Then there is the fertility problem that must be considered. In feeding corn in the pen there is almost always a waste of valuable fertility. If any of the manure made is returned to the soil it is accomplished at quite an expense and only after many hours of laborious and not altogether pleasant work. When harvesting their own corn the hogs are making manure and depositing it directly upon the land. They are also leaving cornstalks where they may be turned under without first being hauled out to the field.

The general health of any farm animal is always to be considered. In hogging down corn the animals receive a great deal of exercise which keeps them contented and vigorous. Instead of rooting around in sloppy pig yards as is often the case, they are working in clean fields which, as one may observe, is of no small benefit to them.

Management of the Corn Field. Shorthorns Scotch and Scotch Topped Sultan Champion heads herd, one scotch two yr. old herd bull by Red Oumberland priced right.

Milking SHORTHORNS Clay bred bull calves the Corn field they should be fed some Corn field they should be fed some Corn in the dry lot. At first only a Davidson & Hall, Beland & Beland, Tecumseh, Mich. small amount, gradually increasing the supply until they are accustomed to the feed.

Hogs should not be permitted to cover too large an area at one time or they will not do a clean job of pasturing and hence a waste of good feed results.

The number of hogs that an acre will carry depends largely upon the yield of the corn and the size and vigor of the hogs. A fifty-bushel crop of corn will carry ten one-hundred-pound pigs from eighteen to twenty days. Three fall shotes and six spring pigs may be counted upon to clean up an acre of fifty-bushel corn in fifteen to twenty days.

One should approximate the amount of corn that will be hogged off and lay plans to keep them on that area until they have cleared it up.

A method commonly used in the corn belt is to roll down a portion of the field. The hogs seldom bother the standing corn as they find the knocked down corn so much easier to procure. After the portion of the field that was rolled down has been cleared up an additional amount should be rolled and the hogs will find this new ready feed in a short time.

Some practice the system of stretching a temporary fence through the corn by weaving hog wire in between the stalks. It is not necessary to make this fence very substantial as the hogs seldom attempt to go beyond it as long as there is good corn left within the enclosure. Some believe it advisable to knock down some corn when using the fence system, especially at first when the idea is rather new to the hogs. When that part of the field that has been fenced off is cleaned up the fence is moved over and the animals allowed to enter the new clean pasture. The fence system necessitates a little more work but is thought by many to be the best.

Balance the Ration.

Although the hogs are apparently glad of the oportunity to obtain their own food in their own particular manner it has been the experience of feeders that they should be provided with other things besides corn, which is high in carbohydrates, but does not meet the protein requirements of the hog.

This protein element may easily be supplied and the hog allowed to obtain it as his appetite and body needs require. We are likely to consider the hog as an animal devoid of all sense, however, he has often shown better judgment concerning the choice of his food than some of the so-called higher animals.

Many Michigan farmers planted soy beans in their corn last spring and thus have provided a very good protein supplement for the corn feed which may be of considerable value this fall in hogging off the corn. Alfalfa fields adjoining the corn may be utilized to supply the protein. Probably one of the best systems is to place self-feeders in the corn fields and use tankage, shorts, or oilmeal.

Plenty of good fresh water should always be available. Troughs may be placed at convenient places in the field and daily attended to.

Provided with the corn, water, and a protein feed, the hogs may be depended upon to balance their own ration. They will work in the corn, pay a frequent visit to the watering trough and occasionally drop over to the self-feeder for their protein hand-out. The remainder of the time they may be found in groups contentedly discussing the topics of the day and at the same time laying on pork in a most satisfactory manner with very little attention from their boss.



# 

## In 4 Trips Across America Essex 4 Times Breaks Record

San Francisco to New York—3347 Miles In 4 Days, 14 Hours, 43 Minutes

First Essex

San Francisco to New York

4 days, 14 hours, 43 min.
Lowers Record 12 hours, 48 min.

Second Essex

New York to San Francisco

—4 days, 19 hours, 17 min.

Lowers Record 22 hours, 13 min.

Third Essex

San Francisco to New York—4 days, 21 hours, 56 min.
Lowers Record by 5 hours, 35 minutes.

Fourth Essex

New York to San Francisco—5 days, 6 hours, 13 min.
This car took a longer route and also ran into storms. Yet it broke the former record by 11 hours, 19 minutes.

### A Proof of Reliability Never Equalled

The first test of an automobile carrying U.S. Mail across the American continent was made with the light weight, moderate priced Essex. And it resulted in establishing the Essex as holder of the trans-continental record both ways.

The performance while of momentous importance in the world of speed and automobile sportsmanship—is of greater value to the motorist. For it removes all doubt about the reliability of light weight in the most difficult and hardest road service.

### Also Holds These Noted Records

Many other unmatched Essex records forcast its ability to break the transcontinental records at will. For instance it holds the official 50-hour endurance record of 3037 miles in 50 hours. It holds the 24-hour dirt track mark of 1261 miles, made by an owner-car, which had previously seen over 12,000 miles service. And it holds the world's 24-hour road mark of 1061 miles, made over Iowa country highways.

Yet these records are significant only because they show the endurance and reliability of every Essex car. They speak for the ability of any Essex to duplicate these feats.

Essex Motors, Detroit, Michigan



## WATCH the ESSEX



## Leonard's Champion Poland China Herd

Showed ten head at the Michigan State Fair and won second on under a year boar, second and fourth on under 6 months pig First aged sow, second senior yearling. First and fourth under a year. First, second, third on sow pigs. First on breeders herd, first on exhibitors herd, first on get of sire, first produce of dam. Grand Champion sow, senior champion sow and junior champion sow. All of these winners except three, were sired by Leonard's Big Bob and his blood will be represented strongly in the sale. Sale date October 28. Write for catalog and information. All hogs on the farm cholera immune.

E. R. LEONARD, ST. LOUIS, MICH.

## O. I. C. SOWS FOR SALE

One of the Best Herds in Michigan
Young sows due to farrow in September. Spring bears ready for shipment. Choice individuals of BIG TYPE breeding. I ship C. O. D. pay express and register in buyer's name.

CATTLE

J. CARL JEWETT.

Shorthorns Good Scotch bred bulls, cows and helfers priced right.
W. B. McQUILLAN, R. 7, Howell, Mich.

M EADOW Hills Shorthorns. Herd headed by Sildue Tking, full brother of Lavender Sultan Purdue University's great sire. For sale temales of all ages, a few young bulls. Geo. D. Dozder, Dozder, Mich.

Milking Shorthorns of best Bates breeding, bulls 6 to 8 mo. old for sale.

E. H. KURTZ. Mason, Mich.

Shorthorns of Merit Both males and females for sale. ARTHUR DODDS, Lapeer, Michigan Shorthorn Bulls Eight to ten months old of See toh and Scotch Topped breeding. Lawrence P. Otho, Charlette, Mich.

SHORTHORNS—Imp. Mysic Prince in service bred by J. Durno, sire bred by Wm. Duthie. Stock for sale.

J. A. BARNUM, Union City, Mich

R. 5, Mason, Michigan.

For Sale 19 Shorthorn registered good breeding will sell cheap to close out. Apply The JENNINGS FARMS. Bailey, Mich.

Milking Shorthorn 3 mos.heifer calf \$125 bred heifers Mand serviceable bulls at farmers' prices. Central Mich. Shorthorn Asso. Oscar Skinner Sec. Gowen, Mich.

Red Polled cattle for sale bulls from 4 to 18 mos. also cows with calves by side and heifer's.

G. A. CALHOON, Bronson, Mich.

Reg. Red Polled cattle choice young bulls from 6 to 18 FRANK KEBLER, R.1, Grand Ledge, Mich. Reg. Red Polled Bull caives for sale, from 3 mos. to grand son of Charmer 1993 international Grand Charmer pion. WESTBROOK BROS, Ionia, Mich.

### HOGS

Berkshires size with quality is our specialty. Write your wants to M. G. MOSHER & SONS. Ossee, Mich.

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

Large Berkshires. Bapid gainers. 550 to 600 lbs. 17 mos. First prize Jr. yearling gitt, State Fair, bred and sold by us. W. H. Every, Manchester, Mich.

Fine Registered Berkshire pigs for sale, prolific, targe litters.

O. H. WHITNEY, Merrill, Mich.



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

DUROC JERSEY SWINE

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

DUROCS spring boars. A few gilts bred for Sept. farrow at bargain prices. W. O. TAYLOB, Milan, Mich.

## THREE GREAT HOLSTEIN DAYS OCTOBER 19-20-21

Second Michigan State Holstein Sale

## Jackson, Tuesday, Oct. 19th 70 Michigan's Best Holstein 70

Selected from herds that have passed at least one clean test under state and federal supervision.

All high-class individuals. All high-record animals.

## East Lansing, Wednesday, October 20th

75 head carefully selected individuals, including two complete dispersals.

## Owosso, Thursday, October 21st

80 head, high-class cattle, including complete dispersal of the Hillis herd, headed by the best son of Hengerveld DeKol.

## 225 Choice Reg. Holsteins 225 Sold With 60-90 Day Retest Privilege

Sales Managed By

The Michigan Holstein-Friesian Association H. W. Norton, Jr., Field Secretary Old State Block, Lansing, Michigan

> West Michigan's Great Sale of REGISTERED

## HOLSTEIN

114 head of High Class Cattle at the West Michigan State Fair Grounds

### Grand Rapids, Michigan, on MONDAY, OCT. 18, 1920

A splendid lot of carefully selected cattle to choose from, where the buyer can select anything he wants from a choice heifer calf to an unusually good 32-lb. YOUNG HERD SIRE.

Among our offerings will be about a car load of very desirable yearlings and two-year-old heifers from the noted Traverse City State Hospital Herd. Most of these Traverse City heifers are safe in calf to an \$8,000 Grandson of MAY ECHO SYLVIA.

H. A. Washburn will disperse his entire Government and State Accredited Herd of 25 head of choice cattle, including a 29-lb, cow and her sixmonths-old bull caff.

Monroe & Lewis will also disperse their entire Government and State Accredited herd of 15 good females including two splendid daughters of a 28-1b. cow.

Clarence Bisbee will disperse his little herd of five females, including a 29-lb. daughter of a 34-lb. sire, and a 24-lb. daughter of a 30-lb. cow safe in calf to a 33-lb. bull.

We will also have a car load or two of good fresh milch cows of good type, and a car load of springers due to freshen in November and December.

We will offer a car load or more of good cows due to freshen during the winter or early spring; also about a car load of good yearling heifers, and a car load of choice heifer calves. These yearling heifers and heifer calves are good individuals; most of them are out of high record sires and a number of them are from good A. R.O. dams.

There will be two 29-lb. cows in the sale, a of a 30-lb. cow, and other good A. R. O. cows that space does not permit us to

The 32-lb. bull calf is sired by a 30-lb: son of King of the Pontiacs and is one of the best young bulls ever offered in a Michigan sale ring. We also have a 31-lb. 2-year-old bull in the sale, two desirable 29-lb. bull calves, a splendid yearling bull out of a 26.88-lb. cow and a 31-lb. sire and several other good bull calves out of high-class sires and good A. R. O. dams.

Nearly all the cattle in the West Michigan Sale at Grand Rapids come from herds that are tuberculin tested regularly under the Government and State Accredited Herd plan, and a number of these herds are "Fully Accredited."

If interested in the cattle offered at the West Michigan Sale, WRITE FOR A SALE CATALOG.

Sale Catalogs will be out October 1st.

W. R. HARPER, Sales Manager, Middleville, Mich. R. AUSTIN BACKUS, Pedigree Expert COL. D. L PERRY, Auctioneer

## **Poland China Sale Circuit**

**Wesley Hile** Boone-Hill Co. Blanchard **Leonard & Fisher** St. Louis Chas. Wetzel & Sons Oct. 29 Ithaca W.Brewbaker & Sons Oct. 30 Elsie

These firms, members of Central Michigan Poland China Breeders' Assn., will present to the public an offering of Poland China swine, such as has never before been offered in the state. The sales will be held at above named places and will give the farmer an opportunity to fit his exact needs with breeding swine that will produce more pork for the same amount of feed consumed. This is an opportunity of a lifetime, for these firms will sell to the highest bidders sows and boars of the highest individual merit from the best blood lines of the breed. Col. Harry A. Eckhart of Illinois and Col. Ed. Bowers of Indiana will do the selling. These men are artists as livestock salesmen, and it will do the breeders and farmers of our good old state an untold amount of good to be at the sales. It will help to get them acquainted with the breed from an educational standpoint. Michigan is recognized today, as never before, as a state that produces as good hogs as any state in the Union. It is now up to the breeders and farmers to produce hogs of more and better quality. Quality always brings the top price on the open market as well as in the sales ring.

Write for catalogs to the above firms or the secretary of the association. Poland China breeders are urged to join the association. Write to

## CENTRAL MICHIGAN POLAND CHINA **BREEDERS' ASSOCIATION**

E.R.LEONARD, St. Louis, Pres. C.A.BOONE, Blanchard, Sec'y. W. M. KELLY, For The Michigan Farmer

**Macomb County's** 

## First Consignment Sale of Pure Bred Duroc Jerseys

## Armada Fair Grounds

the last day of the Fair

## OCT. 8, 1920

To consist of 30 head of open gilts, spring boars and a few sows with suck-

### **Macomb County Duroc Jersey** Breeders Ass'n.

Col. J. E. Ruppert, Auctioneer For Catalog Address

Robt. J. Chase, Armada, Mich.

### HOGS

### OAKWOOD FARM DUROCS Your inspection and correspond RUSH BROS., Romeo, Mich.

12 Choice Duroc gilts bred to farrow July and Aug-ust. Daughters of Michigan Cherry Col. bred to Jacks Cherry Oriob King Number 189259. Son of the \$10,0000 champion Jacks Orion King 2nd. All large type, heavy bone gilts. 250 to 300 lbs. THE JENNINGS FAR ... B. 1, Bailey. Mich

### **Duroc Boars and Gilts**

at \$25 to \$50 each, crated and registered in name. Satisfaction guaranteed. These are the best pigs in the state. Visitors welcome. MICHIGANA FARM LTD., Pavilion, Mich.

Duroc Jersey hogs. Cholera Immune. Orion Cherry O. C. K. Boar 3 yr. old wt 800 lbs. Fifty September pigs. sired by Michigana Panama Special 2nd. Also some fall gilts. HARRY MARTIN AND 800. Spring-Brook Stock Farm. Paw Paw, Mich.

Write Me at once I have just what you wan heavy bone registered Duroc Jer sey boars ready for service. W. H. MAYES, L. B. 505, Durand, Mich. Duroc Jerseys of the right type, good blood lines and in good condition at a price you can afford to pay. Guaranteed to suit you. W. E. Bartley, Alma, Mich.

Duroc Jersey's. Herd headers in boars. Why! Bo-cause they are bred right, fed right, grown right and from Grand Champion stock. Write or bet-ter come and see. F. J. Drodt, B.I. Menroe, Mich.

DUROC JERSEYS. Spring pigs delivery, \$10.00 each. LAKE SIDE STOCK FRUIT FARM, Pinckney, Michigan.

Duroc Jerseys Do you want a young boar sired by Mich. Pathfinder? I have them. E. D. HEYDENBERK, Wayland, Mich.

Duroc Jersey Feb'y Boars and Gilts, long, big bone extra, \$35 to \$40, June, July and Sept. pigs \$12 to \$20. Satisfaction guaranteed.

B. E. Kies, Hillsdale, Mich.

## DUROC JERSEYS Carey U. Edmonds, Hastings, Mich.

Big Type Chester Whites. Choice, stretchy spring tor Sept. litters. These hogs are big and will fatten at any age. Grand champion blood lines of the breed, Wildwood Prince Jr., Rajah, and Champion X. Cholera immune. Satisfaction guaranteed.

N. L. HILL JR. ackinaw, Tazewell Co. III



## The World's Champion

G. S. BENJAMIN, R. F. D. 10. Portland, Mic

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

### Central Mich. O. I. C. Swine Breeders Ass'n.

Hogs of all ages of popular blood lines. Every sale guaranteed by association.

DR. H. W. NOBLES Sales Mgr.

# **GUERNSEY**

Walker Gordan Buttercup 54674



Dropped Nov. 15, 1916, Sired by Honoria's Star, by Imp. Bijou's Star and out of Imp. Bijou's II. Sire's dam, Imp. Honoria III, of the quartiers. This bull's dam is Dairy's Buttercup, by Halcyon Star, by Imp. Bijou's Star, and of Imp. Village Bijou II; his granddam is Imp. Daisy III des Paijsan's.

We offer this grand individual, rich in Island breeding at \$500.

### Detroit Creamery Co. Certified Milk Farm.

Gratiot Road, near Mt. Clemens, Mich.

HOGS'

CHESTERS two good fall gilts bred to a boar of Wildwood Prince Jr. breeding for Sept Arrow; spring pigs F. W. ALEXANDER, Vassar, Mich.

O.I.C's A few choice late fall and winter boars, also a fine two year old boar. WEBER BROS., R. No. 2, Royal Oak, Mich.

O. I. C's Eight young boars and spring pigs of CLOVER LEAF STOCK FARM, Monroe, ich.

O. I. C.'s Booking orders for spring pigs, we register free and ship C. O. D.
A. J. BARKER & SON, Belmont. Mich.

Look for Miller Meadows L. T. P. C.'s at Marshall Calhoun Co. Fair. Sept. 21-25 CLYDE WEAVER, Ceresco, Mich.

FOR SALE Registered Big type Poland China gilts bred for Sept. far-rew, weighing 225 lbs. for \$60 spring pigs all sold, guarantee satisfaction. DORUS HOVER, Akron, Mich.

O. I. C. Gilts bred for July and Aug. farrow.
Also spring farrowed pigs.
G. P. ANDREWS, Dansville, Mich

I. C. Gilts bred for Sept. farrow and spring pigs.
F. C. BURGESS, R. 3, Mason, Mich.

0.1. C's Some fine spring pigs and yearling gilts. Willship C.O.D register, and guarantee right in every way. JOHN C. WILK, Alma, Mich.

I. C's. One last fall boar wgt. 4°5, two last fall either sex, good growthy stock & mile west of Depot' Citz's. Phone 124. Otto B. Schulze. Nashville, Mich.

## Poland China Special

Bear pigs sired by Monater Big Bob and from our best sows, priced right for immediate shipment. Big-boned, strong-backed, smooth fellows from popular blood lines. Write for information or visit the farm. BOONE-HILL CO., Blanchard, Mich.

L. S. P. C.

Everything sold previously ad 25 spring pigs placed on the bargain counter for mo. of Sept. pairs or tries not akin.
H.O. SWARTZ, Shoolcraft, Mich.

Big Type Poland Chinas Our herd is representative of the best in Big Types. Choice boars for sale now. Wesley Hile, R. 6, Ionia, Mich.

L. T. P. C. We have a large number of spring ed by such boars as "Hart's Black Price," 'Leonard's Big Eob, 'the "Model Clansman" and "Prospect a great son of the \$40,000 Yankee. Write for price, come and look them over if you are in the market. HART, FULCHER & CLINE, address F. T. Hart, St. Louis, Mich.

FOR SALE

Big Type Poland Chinas. We have 45 head of boars and gifts to pick from at farmers prices come at once and pick yours or write for further particulars, they are sixed by Long Bob 2nd, and from high bred dams, we also have some eighteen months old sows to farrow in October, Frank J. Noble & Son, R.3, DeWitt, Mich.

Closing out sale of big type Poland Chinahogs, which represents the work of 25 years of constructive breeding. Everything goes; including our three great herd bears, "Mich. Buster" by "Giant Buster". "A Giant" "Butler's Big Bob." Two of the best yearling prospects in Michigan great length, big bone, Come get your pick. Jno. C. Butler, Portland, Mich.

Big Type Poland Chinas. We want to sell you a write us and we will tell you all about him. We guarantee satisfaction.

HILLCREST FARM, Kalamazoo, Mich.

ANOTHER NEW MARKET EDITOR.

M EET our new markets man, Gilbert Gusler. He came to us from the University of Illinois where he was a member of the faculty of the Department of Animal Husbandry for five years. Before that Professor Gusler taught animal husbandry for three years in the Ohio State University, from whose College of Agriculture he graduated eight years ago. He also holds the degree of Master Science in Animal Husbandry from the University of Illinois. He was born and reared on a farm in northwestern Ohio.

During his educational career Mr. Gusler devoted special attention to live stock marketing. He spent several summers in the study of methods of doing business in the stock yards. The newly established Bureau of Markets commissioned him to investigate a number of big markets and collect information upon the factors influencing prices of various kinds of live stock, meats, and animal by-products, and the methods of reporting these various markets, and later on to investigate the market classes and grades of live stock as a means of devising a uniform classification which it could use in its market reporting work at Chicago, Omaha, Kansas City and East St. Louis. He spent some time on each of these markets and on all the principal other centers, studying the special conditions at each one. As a re-



Professor Gilbert Gusler.

sult of his findings the hog classification which the bureau now uses, was put into effect and modifications were made of the cattle and sheep classifications.

We are enabled to give the readers of The Michigan Farmer the benefit of Mr. Gusler's knowledge of the markets and his ability as a farm market analyst through an arrangement with the Agricultural News Association with headquarters in the Northwestern University Building, 31 West Lake Street, Chicago. Being a farmer by birth and education, he is deeply interested in the problem of justice to the producer, in the markets of the world. He sees the markets from the viewpoint of the producer, not from the standpoint of the manufacturer, speculator or consumer. His is a tremendous job to interpret the trend of the markets for you each week. He will welcome suggestions. But we warn you: Do not call him "Professor." He never liked that title. He says he is not in college any more, and dignity does not go in the stock yards, the grain market, the warehouse or the green grocery. At any rate, we are sure you'll be glad to meet Gilbert Gusler, our new markets man.

A leading packer states that export demand continues healthy along with strong buying of pork products by domestic consumers, especially hams, bacon and shoulders. Heavy inroads have been made into stocks. The market has been uneven, influ-Big Type Poland Chinas special bargains on sows for October farrow, and bears d. A. BAUMGARDNER, R. 2, Middleville, Mich. reed Every 3rd Hog FRE

Save feed and get your hogs ready for market in less time. Prove at our risk that you can save fully one third your feed, making it possible to feed every third hog free by feeding

Milkoline At 2c a Gallon

Milkeline has a base of pasteurized and sterilized, modified Buttermilk. It is guaranteed not to contain any sulphuric acid or anything of an injurious nature to hogs or poultry.

Aids Digestion: Thousands of the most successful hog raisers from New York to California during the pastseven years have proved that Mikoline helps and assists digestion, tending to insure perfect assimilation of feed. It helps tone up the system so that hogs are less subject to disease, and practically insures gains of 2½ pounds per head per day.

University Tested B. Combs while Ase't. Prof. of Dairy Husbandry at Missouri University conducted a scientific test on Milkoline and found that Milkoline fed hogs put on more weight and showed 82,57% more profit than hogs not fed Milkoline. W. H. Graham a successful feeder of Mildeltown, Mo., said \$30 worth of Milkoline made him an extra profitof \$420. Lee Jackson of Wappingers Falls, N. Y., says Milkoline fixed up a bunch of shoats in finestyle and is great for brood sows.

Can't Spoil: Milkoline is guaranteed not to rot, sour or mould. It will keep indefinitely in any climate. Flies do not come near it. It is always uniform, and is guaranteed to make you money or it doesn't cost you anything.

Distributed by-

SCHWARTZ BROS.,

2c a Gallon Milkoline densed form, and you do the diluting on your own farm. When fed as directed Milkoline mixture (one part Milkoline to 50 parts water or swill) costs only 2c a gallon. Full feeding directions free. It is shipped in convenient kegs and barrels which we supply free. The prices are as follows: 5 gal. \$7.50; 10 gal. \$12.50; 15 gal. \$12.50; 15 gal. \$12.50; 15 gal. \$12.50; 25 gal. \$29.50. It pays to buy in barrel lots because you save 60c a gal. over the 5 gal. quantities.

30 - Day Guaranteed Trial. You are safe in ordering any quantity of Milkoline today. Feed one half the shipment to your hogs and poultry in a thirty day test, then if you aren't entirely satisfied return the unused part to us at our expense and we'll immediately refund every cent you paid us. We are so confident that you will find Milkoline the best money maker on the farm that the S. W. Boulevard Bank of Kansas City substantiates this offer, You are the sole judge. Send money order, or check, to us or our nearest dealer and we will ship immediately. Our booklet, "How to Hustle Heavy Hogs to Market" will be sent free on request—your name on a card will do.

Saginaw, Mich.

BSORBINE TRADE MARK REG.U.S. PAT. OFF. will reduce inflamed swollen

Joints, Sprains, Bruises, Soft Bunches; Heals Boils, Poll Evil, Quittor, Fistula and infected sores quickly as it is a positive antiseptic and germicide. Pleasant to use; does not blister or remove the hair, and you can work the horse. \$2.50 per bottle, delivered.

Book 7 R free.

ABSORBINE, JR., the antiseptuc liniment for mankind, reduces Painful, Swollen Veins, Wens. Strains, Bruises; stops pain and infiammation. Price \$1.25 per bottle at dealers or delivered. Will tell you more if you write. Liberal Trial Bottle for 10c in stamps.

W. F. YOUNG, INC., 268 Temple St., Springfield, Mass.

Big Type P. C. Bred gilts, Fall yearlings, prize win-ners, out 1100 lb, sire and mammoth sows from Iowa's greatest herds. E.J. N. athewson, Burr Oak, Mich.

Big Bob Mastodon pigs takes the cake, book your order now. Fall boars and gilts sired by a grandson of Disher Giant, open or bred to Big Bob for Sept. 23 yearling sons. O. E.GARNANT, Eaton Rapids, Mich

BIG T. P. Chinas for sale. A few tried sows, spring boars. Aug. pigs both sex. Recorded free in buyer's name. L L. Chamberlain, Marcellus, Mich.

Lam offering Large Type Poland China Sows, bred to F's Orange, at reasonable prices; also fall pigs. Write or call Clyde Fisher, St. Louis, Mich. R.R.3.

Large Type Poland China pigs, both sexes now ready, write for description and prices. RALPH SHERK, Caledonia, Mich

Lindhurst Poland Chinas Stock for sale at all times. Public Sale Oct. 23. WM. H. LIND, Alto, Mich.

POLAND CHINAS
W. J. HAGELSHAW, Augusta, Mich.

LARGE TYPE P.C. SWINE. One yearling boar, fall pigs, a few more bred sows. R.W. Mills. Saline, Mich.

L conards B. T. P. C. See exhibit at Mich. State Fair, get your name on mailing list for public sale Oct. 28. Double immune. E. R. Leonard, St. Louis, Mich. R. 3, Large Type Poland China's. Everything immuned by double treatment. Meet me at Detroit, or Jackson Fairs. A. A. Feldkamp, R. 2, Manchester, Mich,

BARGAINS on Big type spring and summer Poland China Pigs also yearling Shorthorn bulls, bull and heifer calves. Robert Neve, Pierson, Mich.

Big Type Poland China boars best below before Frank Oliver, R. 2, Saline, Mich.

## HAMPSHIRES

Choice Spring boars, popular breeding. Booking orders for fall pigs. All stock Cholera Immuned and guaranteed Breeeders. Satisfaction guaranteed,

STEUBEN'S HAMPSHIRE FARM

**Edgewood Hampshires** All bred gilts sold. Now booking orders for gilts bred for fall farrow, and pigs for pig club work only. Depew Head, Edgewood Farm, Marion, Ohio.

Hampshires get your boar pigs, now a few bred gilts left new blood lines of quality.

JOHN W. SYNDER. R. 4. St. Johns, Mich.

YORKSHIRES BRED GILTS Packard Rd. WATERMAN Ann Arbor, Mich

SHEEP.

WHITTUM FARM SHROPSHIRES

A fine lot of imported and house bried yearling ewes and rams for sale. A fine chance to start a new flock or improve the old one call at the farm or write for just what you want.

O. H. WHITTUM, Eaton Rapids, Mich.

Hillcrest Shropshires A nice lot of Ewes and Rams of all ages our flock is headed by McKerrow 3164 a son of Senator Bibby write or call on R. J. & C. A. WILLIAMS. Middleville, Mich.

FOR SALE 35 Registered Shropshire yearling rams and ram lambs.

Also some choice Duroc Jersey boars and gilts.

CLIFFORD MIDDLETON, Clayton, Mich.

SHROPSHIRES Yearling and sired by Imp. Berry No. 163 for sale. Also a few ewes.
ARTHUR DODDS. Lapeer, Michigan

Shropshires Am offering one choice two year ram and a few good yearlings.
C. J. THOMPSON. Rockford, Mich.

Shropshires sire imported Minton Ram rams. DAN BOOHER, R. 4, Evart, A ich.

Shropshires yearling Rams that have size and type for sale.

ARMSTRONG BROS., R. 3, Fowlerville, Mich.

Shropshire Rams lambs, yearlings and one 2 yrs. old, priced right. CARL TOPLIFF, Eaton Rapids, Mich. Shropshires Yearling and rams, with quality, W. B. McQUILLAN, R. 7, Howell, Mich.

Registered Hampshire Sheep both reasonable. Lone Cedar Farm. Sheep prices Pontiac, Mich.

Wool-Muiten Shropshire Rams. Good strong individuals, royalty bred, priced right. A. H. FOSTER, Allegan, Mich.

**HAMPSHIRES** 

Registered Rams all agos. Bred for size, type, quality. Sire at head of flock, I. S. C. No. 25463. Half brother to the Grand Champion ewe at International 1918 Bred by Iowa State College Also a few good ewes.

W. W. CASLER, Ovid, Mich.

Reg. Oxfords. Yearling rams and ram lambs.
Breeding ewes and ewe lambs. Good individuals, prices right.
HUGH HODGINS, Vale, Mich.

Want a Sheep? Let American Hampshire Sheep booklet with list of breeders. Write COMFORT A. TYLER, 22 Woodland Ave. Detroit, Mich.

Colswolds yearling rams, ram lambs, Colswolds ewes all ages sired by Cana-Colswolds dian rams.

A. M. BORTEL, Britton, Mich.

Reg. Oxford Rams ready to ship at \$30, delivered.

J. Robert Hicks, St. Johns, Mich.

For Sale Oxford rams and ewes sired by McKerrows 3800, Assn. No. 88347. Write your wants.
Geo. T. Abbott, Palms, Mich. Phone 78-3 Deckerville

To close an estate I offer for sale twenty Lincoln Rams. Lambs yearlings and two year old at reasonable prices they are a fine both.

ROBT. J. KNIGHT, Oass City, Mich.

For Sale 4 Full Blooded Ramboulett rams
ALLEN ANGELL, Hubbard Lake Michigan

For Sale Several fine yearling rams. Extra-good fleeces, good bone and bred by a Broughton, Ram., Phone 7152F5. R. R. 5,

HORSES

**BAY MARE** 

For Sale, sound and right in every way, weight about 950 lbs. Must be sold at once come and see her or write L. J. Hamlin, 496 Hurlbut Ave., Detroit, Mich.

Delaine Rams B. & C. trpe, having size quality, best of breeding, priced to sell, write.

S. H. SANDERS, R. 2, Ashtabula, O. F. L. KING & SON. Chartlotte, Mich.



### GRAIN QUOTATIONS

September 29, 1920. Wheat.

Detroit.—Cash No. 1 red \$2.39; December \$2.23; March \$2.20; No. 1 white and No. 1 mixed \$2.37.

Chicago.—No. 2 red \$2.34@2.35; December \$2.33; March \$2.17.

Corn.

Detroit.—Cash No. 2 mixed \$1.20; No. 2 yellow \$1.25. Chicago.—No. 2 white \$1.25@1.27%; No. 2 yellow \$1.24%@1.27½.

Oats.
Detroit.—Cash No. 2 white 60c; No. white 58½c; No. 4 white 55½c.
Chicago.—No. 2 white 56¾@57¼; No. 3 white 58@58%c.

Beans. Detroit.-Immediate and prompt are

Detroit.—Infinedrate and prompt are lower at \$5@5.25 per cwt.
Chicago.—Steady. Hand-picked beans choice to fancy at \$6.50@7.
New York.—Dull. Choice pea \$6.50@6.75; do medium \$7.50.

Detroit.-Cash No. 2 \$1.78.

Seeds.

Detroit.—Prime red clover spot at 14.25; October \$14.25; December at \$14.75; alsike \$16; timothy \$3.75.
Toledo.—Prime cash \$14.50; December \$14.80; alsike \$16.15; timothy at \$2.50

Nevertheless, prices declined sharply due to a revision of sentiment. Canadian farmers are selling freely and some American holders have had their confidence shaken by the big decline in corn and oats and deflation in other commodities. The movement in the southwest especially is heavy. Export buying was largely for the Continent as Britain is said to be supplied until the southern hemisphere crop is harvested. Flour buyers in this country continue to hold off and the market declined the past week. Many calculations of the surplus available for export from the United States during the present crop year have failed to include a big carry-over of flour which is sufficient to add the equivalent of of 50,000,000 bushels of wheat to our surplus. The Canadian crop estimates vary a great deal, but Winnipeg issued an estimate of 300,000,000 bushels which, if correct, should make available about 50,000,000 bushels more not included in previous summaries of the world's supply. The International In world's supply. The International Institute of Agriculture at Rome estimates the crop of Australia, South Africa and Argentine as 28 per cent larger than Just were er than last year.

CORN

A remarkable September warm spell running nearly two weeks has done much to remove the danger of frost damage to the corn crop which seemed probable a short time ago. Estimates upon the proportion of the crop that is now safe vary from 35 to 90 per cent in different sections of the corn belt, but that there will be nearly a record yield of merchantable corn seems alto-gether likely and the total crop cer-tainly has not decreased since the gov-ernment's estimate on September 1.

Corn prices are down to around the lowest figures on the crop, while the new crop prices are at the lowest level since early in 1917. Corn has sold at around 80c for December shipment in the central west and under \$1 for old corn. Just where the post-war level will be is unknown but there is not corn. Just where the post-war level will be is unknown but there is nothing in sight at present to lift prices much above the level to which they have fallen. Farmers are cleaning out their eld court before the statement of the their old corn before time to gather the new crop arrives. Chicago re-ceipts during September were the heaviest since 1914. The east, south-west and south are well supplied with new corn and Argentina is able to take care of half of the eastern coast de-

Prices of clover and timothy seed declined last week, influenced by the break in other farm products and absence of demand. Dealers who wish to accumulate do not believe that prices have reached bottom and purchases for immediate consumption are not sufficient to match the selling.

**FEEDS** 

Luxuriant fall pastures and forage crops, prospect of an enormous corn and oats crop with record yields of kaffir and milo tend to keep buyers out of the feedstuffs market. Mixed feed makers are unable to buy because of small demand for their worker. makers are unable to buy because of small demand for their product. Canada and Argentina are offering mill feeds to eastern points. Latest Chicago quotations per ton (100-lb. bags) in carlots are as follows: Bran \$45; standard middlings \$53; flour middlings \$62; cottonseed middlings, 41 per cent, \$63; cottonseed meal, 36 per cent \$59; gluten feed \$62; hominy feed \$62; old process oil meal \$66; tankage \$115. tankage \$115.

HAY

\*\*14.75; alsike \$16; timothy \$3.75.

Toledo.—Prime cash \$14.50; December \$14.80; alsike \$16.15; timothy at \$3.50.

\*\*WHEAT\*\*

Immense export sales of American and Canadian wheat estimated at as high as 15,000,000 bushels in three days were made during the past week. Nevertheless, prices declined sharply \$30@31; light mixed \$30@31; No. 2 timothy \$29@30; No. 1 mixed \$29@30; No. 2 mixed \$20. \*\*\*

\*\*The premium on good grades of hay continued to widen last week so that the latter probably furnish the better feeding value for the money. Declines in corn and oats prices make the hay prices seem high although the latter probably furnish the better feeding value for the money. Declines in corn and oats prices make the hay prices seem high although the latter probably furnish the better feeding value for the money. Declines in corn and oats prices make the hay prices seem high although the latter feeding value for the money. Declines in corn and oats prices make the hay prices seem high although the latter feeding value for the money. Declines in corn and oats prices make the hay prices seem high although the latter feeding value for the money. Declines in corn and oats prices make the hay prices seem high although the latter feeding value for the money. Declines in corn and oats prices make the hay prices seem high although the latter feeding value for the money. Declines in corn and oats prices make the hay prices seem high although the latter feeding value for the money. Declines in corn and oats prices make the hay prices seem high although the latter feeding value for the money. Declines in corn and oat

DETROIT

Cattle.

Best heavy steers ....\$11.50@12.00 Best handy wt bu steers 9.50@10.00 Mixed steers and heifers 7.75@ 8.25

Cattle market steady but slow.

Handy light butchers .... Light butchers ..... Best cows .....

Butcher cows ...................

Bologna bulls .....

west is not getting much above forty cents and in some instances less. This is materially less than cost of production.

SEEDS

Prices of clover and timothy seed declined last week, influenced by the break in other farm products and abweather was also a retarding factor. weather was also a retarding factor. Shipments are rolling at the rate of approximately 600 cars per day and will probably become heavier. Quotations of this probably become heavier. tions at the close of the week were as follows: Chicago—Northern whites \$1.50@1.75 per cwt; Northern Early Ohios \$1.65@1.95; eastern cobblers \$2; Giants \$1.75. Detroit—Michigan \$3.25@3.50 per 150-lb. sack.

EGGS AND POULTRY

High prices for fresh eggs has deflected part of the demand to the use of refrigerator eggs. Prices advanced during the week and the outlook is for a considerably higher level this winter as stocks are small and demander as stocks are small and demand, including export, is broad. Latest prices upon poultry and eggs were as follows: Chicago—Eggs—Fresh firsts at 54@54½c; ordinary firsts 48@50. Pouland young 30c; Indian Runners 26@ 28c; geese, old and young 23c; turkeys fancy 45c. Detroit—Eggs—Fresh candled 53@57c. Live poultry—Broilers 35@36; Leghorn broilers 2622c; beese 36.36; Leghorn broilers 30@32c; hens 34@35c small hens 32@33c; specially fat hens 37@38c; roosters 20@22c geese 18@20c; ducks 36@38c; turkeys

BUTTER

Demand for and comparative shortage of the finer grades of butter caustimothy \$29@30; No. 1 mixed \$29@30; ed greater firmness than has been seen No. 1 clover \$28@29; rye straw \$13.50 on the markets for some time, during @14; wheat and oat straw \$12.50@13. the past week, and prices on all mar-

kets advanced from two to three cents. Under-grades advanced but little until the advance on top grades turned attention to them because of relative cheapness, a change which has increased the belief that the advance hold for some time. Both domestic and Danish butter in storage are being moved into consumption at prices close to those prevailing on fresh prod-uct. A cargo of 1,800 casks of Danish and one of 15,997 boxes of Argentine arrived during the week. The hot weather the past week has tended to cut down the yield of butter and has caused some deterioration in quality. Closing prices on 92 score butter for the week ending September 25 were as follows: Chicago 59c; New York 62c; Boston 61c; Philadelphia 61%c.

WOOL

Purchases of wool are still few and of small size. The marking down of textile prices during the week has not encouraged buying of raw materials, but should increase consumption of finished goods. Boston states that wool prices are a little easier and five to fifteen per cent declines occurred at the London government auction compared with previous sales. The inception of plans for the formation of a national wool pool should remove any remaining lack of harmony in the selling policy of the various state pools. Quotations from various markets are some-what at variance but all such quotations are largely nominal.

PEACHES.

Peaches, along with nearly all fruits have been on the toboggan the past week. Michigan growers suffered severe losses because of refrigerator car shortage and much stock is said to have been lost on the trees or at the packing sheds. A large amount of innave been lost on the trees or at the packing sheds. A large amount of inferior stock has been arriving on the Chicago market and selling down as low as 25c per bushel, while fancy Elbertas ranged from \$2@2.50. The fruit ripened within a short space of time due to the recent warm weather.

### due to the recent warm weather DETROIT CITY MARKET

Markets were light and buying genmarkets were light and buying generally slow. Potatoes moved generally between \$1.30@1.40 per bu; tomatoes 60c@\$1; grapes moved slowly at \$2.50@3; peaches \$2@4; apples 75c@\$1.75; cubbage 40@50c; crab apples at \$2@3.75; onions \$1@1.50; pears \$2@3 for good quality.

**ONIONS** 

All varieties of onions have now sunk to the same level and are moving slowly. There is a heavy crop and opslowly. There is a heavy crop and operators are feeling their way carefully before buying for storage.

### DETROIT MILK PRICES.

Producers of milk in the Detroit area will be paid on a basis of \$3.80 for all milk during the month of October, while Detroit city prices will remain unchanged, according to the decision reached by the Milk Commission on Monday

### COMING LIVE STOCK SALES.

Horses-October 4, W. B. Otto, Char-

lotte, Michigan. Shorthorns—Oct. 5, Southern Michigan

Shorthorn Breeders' Association,
Hillsdale, Michigan.
Red Polled Cattle—October 5, William
Cottle, West Branch, Michigan.
Holsteins—October 6, C. A. Wilson,
one and one-half miles south of M.
A. C., Lansing, Michigan.
Holsteins—October 7, Chaslen Farms,

7, Chaslen Farms.

Northville, Michigan.

Duroc Jerseys—October 8, Macomb

Duroc Jerseys—October 8, Macomb County Duroc Jersey Breeders' As-sociation, Armada Fair Grounds, Ar-mada, Michigan.

Holsteins—October 16, John B. Martin, Holsteins—October 18, West Michigan Sale, State Fair Grounds, Grand Rapids, Michigan.

Holsteins—October 22, Howell Sales Company, Fair Grounds, Howell, Michigan.

Hogs.

Market lower. Heavies and mediums \$17.50; yorkers \$17.50; pigs \$16.

Sheep and Lambs.
Lower with top lambs at \$14.50; yearlings \$8.50@9.50; wethers at \$7@ 7.50; ewes \$6.50@6.75.

Company, Fair Grounds, Howell.

Michigan.

Poland China—October 26-30. Central Michigan.

Michigan.

Association. See advertisement for dates and locations.

Holsteins—Michigan Holstein-Friesian Association. See advertisement for dates and locations.

9.50@10.00 7.75@8.25 7.00@7.25 4.00@5.157.00 4.50

Live Stock Market Service

6.00@ 5.00@ Stock bulls ..... 8.00@ 6.00@ 65@ Veal Calves. Market steady.

6.00@

Market slow and lower. Pigs ......\$15.00@15.50 Mixed hogs ....... 16.50@16.75 Roughs ..... Stags .....

Sheep and Lambs. Market steady. Best lambs .....\$13.25@13.50 

CHICAGO

Hogs. Hogs.
Estimated receipts today are 12,000; holdover 12,340. Market slow 50@75c lower. Bulk of sales at \$14.75@16.50; tops \$16.80 early; heavy 250 lbs up, medium, good and choice \$15@16.35; medium 200 to 250 lbs medium, good and choice \$15.75@16.50; light 150 to 200 lbs common, medium, good and choice \$15.75@16.50; light lights 130 to 150 lbs common, medium, good and new corn and Argentina is able to take care of half of the eastern coast demand.

OATS

Oats prices have declined with corn although the price will undoubtedly stimulate consumption and there is a rising belief that they are near rock bottom as the producer in the north
Choice \$15.75@16.50; light lights 130 \$50@125. Calves \$20.50.

Hogs.

Market lower. Heavies and mediums \$17.50; yorkers \$17.50; pigs \$16.

Sheep and Lambs.

Cattle.

Estimated receipts today are 11,000.

Choice steers and yearlings are strong 7.50; ewes \$6.50@9.50; wethers at \$7@7.50; ewes \$6.50@6.75.

to higher, grassers and butcher cattle slow. Beef steers medium and heavy weight 1100 lbs up, choice and prime \$16.75@18.75; do medium and good at \$12@16.50; do common \$9@12; light weight 1100 lbs down, good and choice \$14.50@18; do common and medium at \$14.50@18; do common and medium at \$8.50@14; butcher cattle, heifers common, medium, good and choice at \$6@13.75; cows, common, medium, good and choice \$5.50@11.50; bulls, bologna and choice \$5.50@11.50; bulls, bologna and beef \$5.25@11.25; canners and cutters, cows and heifers \$4@5.50; do canner steers \$4.50@10; veal calves light and handyweight, medium, good and choice \$14.50@17.75; feeder steers common, medium, good and choice at \$7.50@12; stocker steers, common, medium, good and choice \$5@9.75; stocker cows and heifers, common, medium, good and choice \$5@8; western range cattle, beef steers, medium, good and choice \$9@14.25; do cows and heifers medium, good and choice \$7.50@10.

Sheep and Lambs.

Estimated receipts today are 23,000. Sheep steady to higher; lambs steady to lower. Lambs 84 lbs down, medium, good, choice and prime at \$11.50@14; do culls and common \$8@11.25; spring do culls and common \$8(0)11.25; spring lambs medium, good, choice and prime \$8.75(0)10.75; ewes, medium, good and choice \$5(0)6.25; ewes, cull and common \$2.50(0)4.75; breeding ewes, full mouths to yearlings \$5.75(0)9.75; yearling wethers medium, good and choice ling wethers medium, good and choice \$12@13.50.

**BUFFALO** 

Market is 50@75c lower than last week's close. Dry-fed prime shipping steers \$15.50@16.50; best do \$13@14; medium do \$12@13; native yearlings \$11.50@16; fat cows \$9.50@10; butchering cows \$7.50@8; fancy bulls \$8@8.50; other bulls \$5.50@7; stockers and feeders \$6@8; milkers and springers \$50@125. Calves \$20.50.

M ANUFACTURERS of condensed milk are in a predicament. While the price of sugar was at an extremely high level it was easy for them to continue to demand high prices for their products, especially for sweetened products, on the grounds that the prevailing prices for sugar were so high that they could not afford to manufacture condensed milk at lower prices. They have been successful in keeping prices high on that plea even though it was high on that plea, even though it was contrary to the age-old law of supply and demand. However, the bullish movement on the part of sugar prices movement on the part of sugar prices rather upset their calculations, and they now see that they must cease manufacturing condensed milk in order to clear the supplies which they have on hand. They are at present more than loaded with stocks. It is reported that one large manufacturing concern has fully \$75,000,000 tied up in finished condensed milk.

There is an authentic report that all

There is an authentic report that all the condensaries throughout the counthe condensaries throughout the country will refuse to accept milk at their plants during the months of October, November and December. It needs no elaboration to prove that farmers who have been patronizing condensaries will be confronted with a serious problem during the three coming months. It is feared that many of them will be forced to dispose of their herds as they are absolutely unprepared to care for their milk. With the market for condensed milk limited, and with a tight-ened condition prevailing in the money market, it is difficult to be optimistic regarding the immediate future of the condensed milk industry.

There has been a sharp decline in prices of sweetened condensed milk during the past month. While the quotations on advertised brands have been maintained, they are entirely artificial. Were it not for the fact that manufacturers of the well-known brands are backed by huge finances, there would be a sharp break in prices. The man-ufacturers of unadvertised brands, who are, in most cases, less able to with-held their stocks from the market are, in most cases, less able to with-hold their stocks from the market, are offering their goods at greatly reduced prices. Demand is not strong for any class of goods. Local consumption is no more than normal and there is prac-tically no inqury from abroad. It ap-pears that conditions cannot improve for some time to come.

## SEASON'S HEAVIEST CATTLE

THE season's heaviest run of cattle, attracted by the recent advance—especially on in-between grades of steers—coincided with a dressed beef market which was \$1@2 lower due to the September hot spell and a series of Jewish holidays. For the first time this season the ten market run exceeded that of last year during the corresed that of last year during the corresponding period, although the increase was slight. The range movement was heavy, both from the northwest and the southwest.

Strictly corn-fed cattle are in a class by themselves and have held steady. Some of the lower grades are as much as \$2 cheaper although a \$1@1.50 decline catches most of them. An excess of grass steers has clipped 50c@\$1.50 from butcher cow and heifer values. Fulls held steady except the trashy kind which are about 50c lower. Canner values have not been damaged, although hides are worth only about one-third to one-half as much as last year and are hard to sell at that. Heavy grassy calves continued their downward course, but other kinds are steady at most markets.

A heavy movement of grass cattle is as \$2 cheaper although a \$1@1.50 de-

A heavy movement of grass cattle is in sight for the next few weeks. The range run is undoubtedly short, but probably its deficit will be made up to a considerable degree by an increase in the supply of cattle from the corn belt and the southwest, as cattle short-age over the country as a whole is probably less than advertised. Until this seasonal run is over, pronounced strength in cattle prices is improbable. Local slaughter at 69 markets for the first eight months of this year is only 6.6 per cent less than that of last year which was a record. The August decrease was 5.2 per cent.

### SHORT FEEDERS ARE BUYING.

The regulars in the industry saying that all incentives are absent. Comments upon the money situation are mixed, but there is little evidence of real improvement. The shortage in the western run makes desirable feeders scarce, but the majority of buyers are content to take out the low-priced stuff. Short feeders are buying, tempted by cheap corn and the high cattle top. Values have declined slightly

THE CONDENSED MILK MARKET. during the week. No apparent reason exists for values going much below the present level during this fall. The stocker and feeder movement from 69 markets since January 1 is 17.9 per cent under that of last year. The August decrease was 28.8 per cent.

### SEPTEMBER HOG BULGE SUB-

A FTER an uninterrupted rise of about \$2.75 within a few weeks the market reached its pinnacle on Monday when \$18.25 was paid at Chicago. The reaction on the following three days was about due to decreased buying by eastern shippers and to the opposition of packers to a further advance. Fresh pork prices advanced during the week, but the slump in corn and lack of steadiness in the provision market impaired the confidence of selfers of hogs. The run may continue ers of hogs. The run may continue light for several weeks but during October usually the movement expands and packers make preparations to buy

and packers make preparations to buy on a low cost basis.

The long deferred period of a profitable feeding ratio seems to have arrived as the average price of hogs at Chicago was about \$16.40 and No. 2 mixed corn sold at \$1.25, a ratio of 13.1.

The change in the corn price level will be a factor this winter but the outlook for a relationship favorable to hog feeders is good. Hog slaughter at

hog feeders is good. Hog slaughter at 69 markets during the first eight months of the year is 10.9 per cent less than that of last year.

### LIVE MUTTONS ARE CHEAP.

PRICES of live muttons slid downward again last week, although the ward again last week, although the run continued to be about three-fifths of that of last year. Foreign frozen lamb and Canadian dressed product keep consumptive channels clogged; the market for wool is still sluggish, and hide prices are back almost to the pre-war level. Western lambs are about 75c lower than a week ago but natives lost twice as much ground. Mutton should be cheap when choice native ewes sell at \$5@5.50. Not only is the range run smaller than last year but the proportion of feeders is unusubut the proportion of feeders is unusually large.

Lamb feeders are buying freely at prices \$1 above those of last year, although fat grades are cheaper. Prices upon feeders show only minor changes for the week. Breeding ewes are going cheap.

### VETERINARY.

Bursal Swelling.—I have a mare 4 years old that has small puffy bunch on lower outside of hock. She is not on lower outside of hock. She is not lame, is worked on farm. Can this bunch be removed? J. V. K., Coldwater, Mich.—Painting bunch daily with tincture of iodin will have a tendency to reduce it, but will not entirely remove it. It will not cause lameness. Chronic Cough—For the past several years my 14-year-old horse has been troubled with cough, this spring he seems to be worse and is now showing symptoms of heaves. Have been giv-

seems to be worse and is now showing symptoms of heaves. Have been giving him 1 part oil of tar, 4 parts raw linseed oil. G. L. T., Camden, Mich.—Give him ounce doses of Glyco Herion (Smith) in feed 3 times a day. Feed no clover or dusty, musty, badly cured fodder. Notice that his stable is well symplicid with freeh air. supplied with fresh air.





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2.45 lbs. per day is about 490 lbs. for the season, which at \$3.50 per cwt. totals more than \$17.00.

\$17.00 clear profit additional, per cow, secured merely by giving the cow all the water she wants when che wants it.

In this investigation, one herd reported an increase of 5 to 10 lbs. per cow; three reported 4 lbs. average increases; three say 3 lbs., six 2 lbs.; three 1½ lbs., one ½ lbs.; one \$8.56 during the winter; one \$5; one \$10; one reports 3% increase; one 8%; two 10%; one 12%%; one 20%; and

one says 33%% increase

These reports from 28 herds are confirmed by many other reports and investigations, the details of which are set forth in the James Educational Department Bulletin No. 4.

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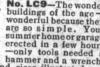
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