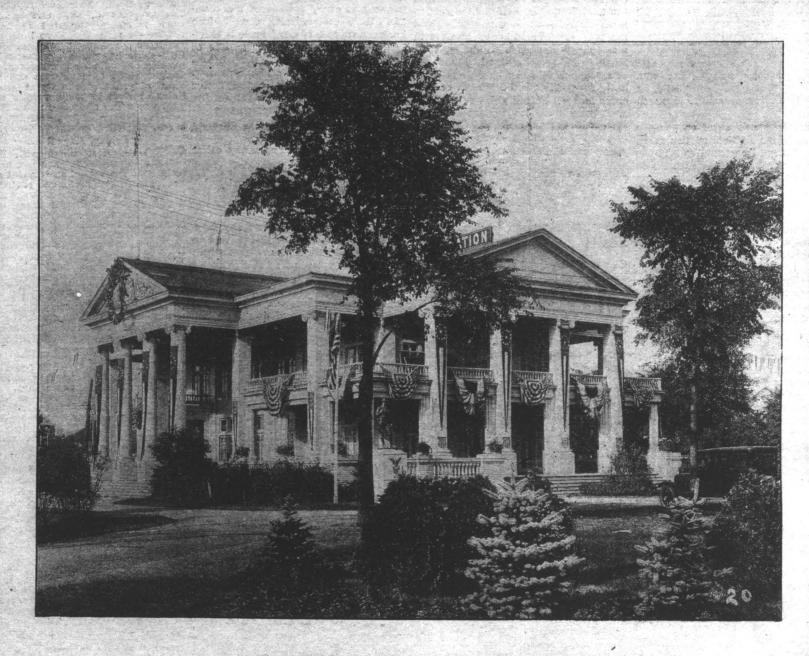


VOL. CLV. No. 10 Whole Number 4113 DETROIT, MICH., SATURDAY, SEPTEMBER 4, 1920

ONE YEAR \$1.00



How to Make the Fair Pay its Way

THE SEASON for fairs has again rolled around in a year in which agriculture has made rapid strides. If there is any institution the value of which is so well known to farmers as to require no word of encouragement to stimulate general attendance, it is the good agricultural fair. It is essentially an educational institution. It should be the aim of every rural family to be represented at least at one good fair, either by the whole family or by one or more members. Exhibits which may contribute helpful information on some immediate

home problem should be carefully studied. Here is how some fair visitors get much from these annual events. They first make a rapid survey of all the departments, noting the special exhibits which they are interested in. After completing the general survey, they return to the things of special interest and devote such time as may be available to detailed study of the selections. These people invariably comment upon the valuable lessons to be learned at the fairs and coincident with this they are usually our most progressive farmers.

The Michigan Farmer

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VOLUME CLV. NUMBER TEN

DETROIT, SEPTEMBER 4, 1920

CURRENT COMMENT

Michigan's Crop Outlook

ONE can not ride

without being impressed with the young men of this country who particiachievements of Michigan farmers in the way of crop production, notwithstanding the handicaps with which they have had to contend. Faced with a serious labor shortage at the outset, it was generally believed that there would be a decline in production on Michigan farms, a belief which seems indicated by official and special reports and personal observation covering wide areas of the state. A special survey compiled from August reports and observations indicates a substantial increase in the farm value of Michigan crops as compared with last year, based on August prices for principal products, and fifty per cent of August pric- of Indiana, Ohio and Michigan and similar to the recent grain marketing es for potatoes. Favorable weather drafted the following resolution: conditions over most of the state have tended to better prospects since that estimate was made, and with average conditions for the balance of the growconditions for th ing season a generally satisfactory crop yield seems assured. As ever, there are spots where conditions are less fav- secretary of the Indiana Federation of orable, and where drought or flood or Farmers' Associations, chairman, Murhail, or insect pests beyond the farmer's ability to control have brought more or less severe local hardships, Simons, of the New York State College but the general results in prospect are of Agriculture, was chosen to present a matter for congratulation and an in- this matter to the proper officials of dication of the high order of ability the American Farm Bureau. Federaand resourcefulness of the farmers of tion and express the ideas of those who annual convention at Columbus, Ohio, ances for the past week at leading cen-Michigan, of which the state may well inaugurated the movement. The tem-

in the northern counties than in the Peninsula Tomato Growers' Associa- vacancy created by the election of Mr. older farming communities in the tion, chairman, and L. R. Simons, secsouthern portion of the state. Time retary. was when many, if not most of the farmers in the newly developed terriious conflicts which the growers of totory were lumbermen first and farmers matoes, corn and peas for the canning as a secondary occupation. Now they factories have with the factories in arare progressive farmers, with an eye ranging contracts each season. Most

The movement grew out of the var. Ashtabula, Ohio, junior ex-president; take charge of the strike zone. The Sam W. Severance, Louisville, Ky., Russo-Polish peace negotiations will now be taken up at Riga instead of at Minsk, where little progress has been made. The wage dispute the strike zone. The open are progressive farmers, with an eye ranging contracts each season. Most was when many, if not most of the are progressive farmers, with an eye ranging contracts each season. Most ey, Grand Rapids, treasurer. The Ohio coal operators and miners is setto scientific and economic methods of the tomato canning factories in New board of directors are: Richard Hitted by granting the workers an inwhich means much for the future of York state this year have contracted tinger, Belmont, Mass.; J. H. Rice, crease of \$1.50 per day.—Eleven perAshtabula: M. S. Yoder. Barberton, Sons are killed and forty wounded durants. which means much for the future of York state this year nave contracted and forty wounded dur-our agriculture. There could be no bet- for tomatoes on the basis of \$22.50 per Ashtabula; M. S. Yoder, Barberton, ing fighting on the streets of Belfast, ter illustration of this fact than the ton, while in parts of Indiana contracts Ohio; Thomas Delworth, Weston, Ont.; Ireland. gathering of nearly three thousand were signed as low as \$15 to \$18 per W. B. Davis, Aurora, III., and J. G. farmers at the Upper Peninsula Ex- ton, In Delaware and Maryland the Hills, Newtonville, N. Y. periment Station for their second an- eight thousand growers of the Peninmual round-up last month. Several hun- sula Tomato Growers' Association are ty-five vegetable growers and greendred of these men spent two days at asking this year fifty cents per basket house men, their wives and families in the station, in inspecting the experi- or close to \$30 per ton, and Mr. Ross, attendance. The principal action takment plots of potatoes, grains and for- of Delaware, the representative of the en at the meeting was the formulation many lives have been lost and much age crops, in comparing varieties, ob- eight thousand peninsula growers stat- of plans by which the Vegetable Growserving the influence of the date of ed that the men were sticking to their ers' Association of America will work planting, studying prevalent plant dis- demands.

conditions for such development means eers of lower Michigan. that the young men of northern Michigan have a vision of the future of agriculture in that section and are making a wiser choice in sticking to the land than is the case in some of the older agricultural sections of the state and country.

One notable development to be observed in all the northern counties is bers of the committee were unanimous tics for municipalities and states for served in all the northern counties is bers of the committee were unanimous tics for municipalities and states for served in all the northern counties is bers of the helief that the highest the fiscal year of 1920 will be put off to the increasing use of sunflowers as a in expressing the belief that the big silage crop. They are used in combi- work ahead of the organization is the fourteenth census. nation with corn in the lower of these development and perfection of coopertions where corn cannot compete with of efficient marketing and distribution them in luxuriance of growth. Farm. of farm products. This expression is ers who have fed the silage state that in line with the belief of thoughtful the cows like it as well and respond to farmers in every section of the counthe cows like it as well and respond to farmers in every section of the countries as liberally as to corn silage, and try. It is economically sound. The world is being completed at Belfort, the crop produces a heavy tonnage in business success of the farmer is chiefference.—Coal prices have been cut in sections where corn is uncertain. With ly dependent upon the two factors of legumes and small grains in abundance economic production and the efficient NE can not ride legumes and small grains in abundance economic production and the efficient mission orders a readjustment of grain through the vast and soil and climatic conditions pecusale and distribution of his products. freight rates to stimulate the movelegumes and small grains in abundance economic production and the efficient through the vast and soil and climatic conditions pecu-length of Michigan liarly favorable for the growth of root The development of the latter factor ment of grain on the Great Lakes,— from south to north crops and with large areas of undevel- has not kept pace with that of the Sales of wool in London show an ad-and return by rail and oped lands available for growing, the former, hence the need of and oppor-cent for greasy merinos and fine crossand auto, covering a agricultural future of our northern tunity for the development of business breds. wide transverse section of the state, counties is most promising, and the organization.

economic benefit. Progress of a simi- same time enjoy the essential comforts izations should be first concentrated. lar order is to be equally noted in the and pleasures of life while providing a developing area below the straits. New present and future livelihood for themfarms are being developed in all this selves and their families, to a degree territory which, under present difficult which was wholly unknown to the pion-

A Correct Business Basis

A T a recent meeting of the execu-

counties and frequently alone in sec. ative companies to solve the problem

There undoubtedly are many other

and following the various demonstra- pate in its development may confident- ways in which the sane business organtions from which they could get ideas ly look forward to the accrual of sub- ization may ultimately benefit its memwhich would help them in their busi- stantially increased land values in ad- bers. But they can well await the acness of crop production. These men dition to their current earnings. And complishment of this most important are also equally alive to the possibili- with modern means of communication work, on which the energies of nationties of business organization for their and transportation they can at the al, state and local farm business organ-

News of the Week

Wednesday, August 25.

JPPER SILESIAN districts are re ported in the hands of Polish insurgents.-Poles recapture all the government districts of Poland except two. ing of the executive committee of the tive committee of the American Farm Burace and Federation, held coal miners of Indiana.—The census in Denver, the mem- bureau announces that financial statisenable the earlier completion of the

Thursday, August 26.

GERMAN frontier guards are now firing upon Soviet troops who are attempting to cross into Germany.—Great Britain sells a large fleet of warships to South American republics.—The greatest dirigible airship in the

Friday, August 27.

Two American ships with United States volunteers are not allowed to land at Danzig.—The Russian soviet government withdraws one of its terms of peace that the Poles arm a working-men's militia of 200,000 men.—James Wilson, secretary of agriculture in the cabinets of Presidents McKinley, Roosevelt and Taft, dies at his home in Iowa at the age of eighty-six. Governor Milmay vote at the state election Septem-

Saturday, August 28.

THE Russian army has reorganized and is now opening a great counter offensive against the Poles, which promises to develop into a decisive battle near Grodno.—Labor officials in Washington declare that another coal strike looms as a result of the award of the government's anthracite coal commission.—A dispatch from Palestine states that 150 Christians have been killed by a band of Bedouins at Ajlun, a village about fifty miles northeast of Jerusalem.

Sunday, August 29.

HE number of Russian soldiers who 245,000.—About 16,000 mill operators at Manchester, N. H., are laid off for a two weeks' vacation.—A world congress on foot-and-mouth diseases is to ters in the United States show an ex-

Monday, August 30. A BATALLION of United States infantry arrives in West Virginia to

Tuesday, August 31

THE railroads of the United States begin operating on their own resources.—Dispatches from Constantinople report the massacre of four hundred Armenians by Kurds in Anatolia. property destroyed.—President Wilson accepts the majority report of the min-wage commission which gives the miners an average increase of seventeen per cent in wages.

Vegetable Growers Meet

destined to be proven erroneous, as ious states was put in motion at a spe- together and establish a basic price for of the legislature of that state to amend indicated by official and special reports cial meeting last week in Columbus at all the states with a differential adapt. the registration laws so that the women cial meeting last week in Columbus at all the states with a differential adaptthe close of the twelfth annual conven- ing it to the different regions, the sellthe close of the twelfth annual convening it to the different regions, the sell-tion of the Vegetable Growers Associating to be done through the ultimate by 142 American railroads for improve-tion of America. Representatives of organization which will be formed un-the existing canning crops producers' der the guidance of the American Farm. Hampshire, is appointed assistant secorganizations in the states of New Bureau Federation. It is expected that retary of the navy by President Wilson. York, New Jersey, Maryland and Del- a conference will be called under the aware met with farm bureau officials auspices of the national farm bureau

"Resolved, that those here assemthe growers of canning crops in the are not now organized. several states.

A committee of three, Lewis Taylor, Farm Bureau Federation, and L. R.

eases and methods of combating them The New York and middle western Bureau Federation.

NOTHER large cooperative sell- growers did not contemplate any drasing organization, that of the can-tic action but their intention was to ning crops producers in the var- bring the growers of the various states likin, of Maine, calls a special session conference at Chicago where the different sections will get together and

The Michigan representative at the meeting was Robert A. Wiley, secretary of the Michigan Cherry Growers ray D. Lincoln, secretary of the Ohio and connected with the marketing department of the Michigan State Farm Bureau.

All the present officers of the Vegetable Growers' Association of America were continued in office at the twelfth last week, except the vice-president, L. And this ability and resourcefulness for the purpose of the discussion was is equally, if not even more apparent B. L. Ross, of the Seaford, Delaware, in the developing agricultural territory Produce Growers' Company, and the Farm Bureau, was elected to fill the was formed F. Miller, of Toledo, Ollo, will be forced are making a desperate stand at president of the Cook County, Illinois, Grodno and Leon Trotsky, Bolshevist Farm Bureau, was elected to fill the minister of war, is personally in command of the troops. Miller to the presidency. The remainder of the officers are: E. A. Dunbar, The movement grew out of the var. Ashtabula, Ohio, junior ex-president;

There were five hundred and sevenin harmony with the American Farm

Poland China Breeders Active

Our Circuit Rider Gets a Line on the Work of Several Central Michigan Breeders

NCREASING the popularity of the of forage and concentrates into mar- and still lack the nerve to go out and grown and should be in fine condition as breeders, the necessity of develop- erable length, with proportionate ized the need of a larger and more Half Ton, a son of Big Half Ton and ing Poland China swine along lines depth of side and loin is most sought prolific type than could be found here out of Buster Giantess. Smooth Half that add commercially to their value, after by the packers. Incidentally, in Michigan. As a result he made a Ton is an excellent sire and combines



Snapped in Brewbaker & Sons' Yard.

throughout the great pork producing states. If Michigan is to become famous as a breeding ground for purebred Poland China swine it is time for her breeders to awaken to a realization of the fact that they must improve the type, size and quality of their breed-

For several years men well-posted in Poland China affairs have realized the importance of breeding larger animals with four real legs and big, strong arched backs. It remained for such enterprising Michigan breeders as W. E. Livingston, Wesley Hile, C. A. Boone and others to begin to scratch their heads and look around for breeding animals that possessed the former size, type and prolificacy for which the breed was famous. They found them over in Illinois, Iowa and Missouri, and it is not hard to guess that it cost them quite a tidy sum to bring these breeding animals to Michigan to correct the weak points in their herds. The results of going out after some of the best animals of the breed, however, have more than warranted the money invested in better individuals of the breed. Today we have here in Michigan animals of the approved type from some of the most popular lines of breeding to be found in America.

7 ITH one hundred or more animals of excellent type and popu-



Wesley Hile's "Miss Columbia."

here in Michigan should not be slow

Poland China breed of swine in ketable pork. It has also been thor- pay high prices for breeding stock by sale time. Both farmers and breed-Michigan is the goal, ambition and oughly demonstrated that the small, from distant localities. heart's desire of several progressive very compact, "chuffy" hog is not the breeders who have joined together to most profitable animal for Michigan hold a circuit of public sales during conditions. Feeders know that it is

THE first visit was at the farm of Charles Wetzel & Sons, of Ithaca, will present an offering of about forty the last week in October. These sales not the thick, compact type of hog that began breeding Poland Chinas about head from such blood lines as Big should prove of great value in bring- tops the leading markets, but that, in five years ago with the idea of growing Mastodon, Defender and Big Timm ing to the attention of farmers, as well most instances, a type showing consid-better hogs for market. He soon real-sows bred to their herd sire, Smooth and at the same time producing ani- this is the profitable type, and the kind trip through Iowa and Missouri and the blood lines of two famous families mals of the type most in demand Michigan Poland China breeders must purchased a few good individuals of produce if they are to make the most the big-boned type. Among the sows in of their opportunities and not surrend- his herd is Miss Columbia, a litter mate

practically all of the standard breeds pigs in her last three litters-all withof swine are now being bred more and in a year. more for size. A few years ago nearly

er the present high position of the Pol- to The Yankee and The Pilot, for which and China breed to some of its com- he paid \$1,025. This young sow is one petitors who are flaming into popular- of the outstanding females of the breed ity on the slogan of stronger bone, and undoubtedly the best Poland China high backs and increased prolificacy. sow ever brought into Michigan. Miss In proof of the fact that breeders Columbia is not only great in blood are awakening to the necessity for pro-lines and individuality but she is a ducing a more vigorous type of hog, great mother and has farrowed forty

Another excellent sow of immense all of the animals fitted for public sale size, wonderful depth, stylish carriage, and exhibition purposes showed much strong back and good bone developrefinement, whereas now we see ani- ment is Gerstdale Jessie, a daughter mals with much more scale and with of Bib Bob and out of Long Bess. She of the breed. Two boars and ten gilts more substance. Breeders of purebred was bred by R. W. Halford, of Iowa. listed in the sale are daughters of Kinhogs are laying much stress on big Then there is Quality Miss, a daughter neson's Gerstdale, a daughter of Gersttype, which is but another name for of Royal Big Bob and out of Jumbo dale Giant and out of Dessie Mastoincreased vigor in the breed. And along Giantess, a line-bred Mouw's Smooth don. Both Smooth Half Ton and Kinwith these improvements we must not Jumbo sow. Pigs from these good sows neson's Gerstdale came from Linc



Some Young Sows on the Boone-Hill Farm.

ance of strong bone.

ing pigs entered in the sales. Some of results from the matings. the animals listed in the sales show but altogether the offerings are a cred- a boar of great depth of body a find something of interest in these and granddaughters of Extra Long All of Mr. Leonard's animals are in exsales. Every person interested in the Jumbo, and they present a striking unito take advantage of the situation and future of the Poland China breed of formity of type, size and appearance. add some of these rangy, strong-back- swine in Michigan should plan to at. Another grand brood sow is Lady ed animals to their present breeding tend one or more of these sales. Such Wonder B, a daughter of Black Big

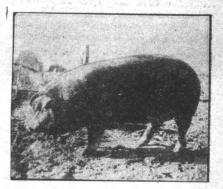
sideration. Along with it must come has seventy-three pigs from eight a daughter of Big Defender and out of strong legs, arched backs and abund- spring litters, which is rather convinc- Daisy Hadley is another crack sow in ing proof that his herd is not weak so the Leonard herd. Five of the young lar lines of breeding offered in these A Poland China swine who have join- of the famous Clansman, a \$50,000 a fine bunch of individuals. For a herd sales successful farmers and breeders ed this circuit of fall sales throughout boar, and out of Gerstdale Jessie, one sire Mr. Leonard has the Orange Clanscentral Michigan the Circuit Rider of his crack sows. Some of the other man, a son of Lord Clansman, by the made a trip of two hundred miles and sows are safe in pig to the Clansman inspected the breeding stock and grow- and Mr. Hile is looking for some great

Over near Elsie, W. Brewbaker & type and quality that should please Sons have an excellent herd headed the most critical breeders, others are by Gerstdale Timm, a son of Gerstdale too compact and have too light bone, Jones and out of A Miss Timm. He is it to the breeders who are promoting an abundance of strong bone. Among the sales. Farmers who desire pure- the females in the herd is that grand bred Poland China hogs to improve old foundation mother, Extra Long their breeding stock, as well as breed- Jumbo, a daughter of Big Type King ers who are in need of animals of the and out of Jumbo Queen. Nearly all of more popular modern type are sure to the sows in the herd are daughters Clansman, and out of Buster's Orange.

herds. It has been demonstrated that a trip is sure to prove of great educa- Wonder and out of Monroe's Giantess. rangy, strong-backed hogs have many tional value, besides the men who have She is a big type sow of quality and offerings of the Boone-Hill Company, advantages over the so-called quick- invested their money in better individ- good blood lines. Gerstdale blood will of Blanchard. Mr. C. A. Boone, manmaturing type for producing large lit- uals of the breed from other states are predominate through the offerings in ager, has the right idea about building of profitably converting a large amount need the improving blood in their herds been listed. The young stuff is well

ers will find plenty of good individuals to interest them among these offerings.

Charles Wetzel & Sons, of Ithaca,



One of Mr. Leonard's Herd.

forget that mere size is not the all- make up a prominent feature of the Lucken's herd of Indiana. The forty head listed from this herd make up a creditable bunch of young and mature

> OVER at St. Louis, Clyde Fisher and E. R. Leonard will present sixty head in a combination sale. Mr. Fisher's offerings are made up of sows from the Smooth Wonder, Big Bob and King Joe lines of breeding and pigs sired by Fisher's Orange, a son of L's Big Orange and out of Emrick's Chief. Fisher's Orange is a large vigorous boar of good type, and carries plenty of bone with good depth of sides and loins. The sows and pigs are a growthy lot and the blood lines represented in the herd are among the most popular.

E. R. Leonard, the veteran breeder and showman, will present thirty choice individuals from such sows as Lady Big Bone, a daughter of Des Moines A Wonder and out of Hazel important factor to be taken into con- offerings in the coming sale. Mr. Hile Big Bone I. Queen of Walnut Brook, far as prolificacy is concerned. For a sows listed in the sale are daughters



Charles Wetzel & Son's Herd Sire.

cellent condition and from popular lines of breeding.

A ND last, but not least, the Circuit Rider looked over the excellent ters of vigorous pigs that are capable deserving of the support of those who this sale. About fifty animals have up the Poland China breeding business (Continued on page 286).

Holstein Tours Prove Great Success

HE two weeks' series of Holstein tours in southern Michigan counties proved to be a great sucand those who attended were unanimous in their approval of the idea. Coming at one of the busiest seasons of the year, while harvesting and threshing were in full swing, the attendance, which ranged from one hundred and fifty to three hundred each day, was extremely gratifying.

Publicity, tuberculin testing, calf clubs, and the adoption of a constructive breeding policy by the selection of a few strains upon which all the breeders of the state should combine were the principal subjects discussed.

The Shiawassee Tour.

The first day of the series, which was spent in Shiawassee county, assured us of the success of the undertaking. Promptly at nine o'clock the machines, piloted by County Agricultural Agent H. E. Dennison, left Owosso for the southern part of the county, stopping first at the farm of Fred Martin. Mr. Martin has a small herd of very good quality and takes good care of them. One of the consignments to the Shia-County Holstein Breeders' Sale to be held at Owosso, October 21, will come from this herd. The next herds visited were owned by D. D. Dutcher and Charles Wilkinson, both of whom will consign some first-class individuals to the fall sale. The C. M. Spalding and James Sexton herds were at Sexton's aroused much favorable comment.

At noon we stopped at the beautiful farm home of Charles Paine for the basket lunch and program. After inspecting Mr. Paine's cattle, we called on Mr. James Hopson, who, in company with his neighbor, Mr. Spitler, owns two very good sires. Some very good cattle were seen here, and Mr. Spitler had a pair of very fine calves which were being fitted for the fair.

The Hillis herd, next on the list, consists of about thirty head of very fine individuals and is listed for dispersion in the Owosso sale, October 21. Johan Hengerveld Lad, one of the best sons of Hengerveld DeKol, heads this herd. This is one of the few cases where a bull has been kept until his value was proven, for he is now past fourteen years of age and has nearly seventy tested daughters, thirty-two of which range from twenty to thirty-one pounds of butter in seven days. All the cows in the herd are in calf to this sire, and owned by the Frankenmuth-Tuscola this herd should form the basis for a Bull Association, a group of about fif. try will undoubtedly make great strides the county and upon the success of the

ever held by the Shiawassee county the Ash, Schieffer, Schnell, Laux, and breeders and they are planning to Ridgman herds and saw some fine cat- smoothly, thanks to their efforts. make it a real sale.

A Day in Saginaw County.

Competition was keen in Saginaw first to be visited.

bred Holstein sire. Here was a herd of twelve cows, including two two-year- herd, north of Caro, was visited in the State Hospital, and the other, Traverse club boys and girls, twenty-two out of old heifers, that had been built up from afternoon. a scrub foundation by using good pureproduction of the cows of the state.



stopping at the Frankenmuth Hotel for dinner-and a real dinner it was, too. tle were seen.

corn and oats, nor straighter rows of good day's work. beans and sugar beets than these. The cared for and heavy producers.

cow and they are all fine individuals. sands of dollars.

Another herd of remarkable quality was seen at John Stern's. Mr. Stern herds of R. V. Cutting, William Chrisbelieves in intensive agriculture, and cinske, and Arthur C. Reek, and saw his farm of forty-five acres showed the some very good animals, stopping at results. He kept only five cows during the last place for the lunch and prothe past year, including a two-year-old gram. Following the program, a short and a three-year-old heifer, but they business session of the Lapeer County

	Milk	Lengt	h of
	Produced.	Reco	ord.
Seven years	.14,300	10	mo.
Six years		91/2	mo.
Four years	.15,400	11	mo.
Three years	.16,400	9	mo.
Two years	.11,200	9	mo.

These cows received the best of care breeders were in attendance. and feed but were milked only twice a territory about Frankenmuth.

Tuscola Next.

breeders on the day before. herds are in Tuscola county close to known on the fair circuit a few years place right in the city of Flint and the Saginaw line, and we do not blame ago, showing with good success at the keeps nothing but purebred stock, in-Saginaw breeders for including National Dairy Show. the them in their trip, as they are well

persed this fall and a number of very bred bulls are good bulls and they are pounder owned by Mr. Rice. good individuals with good records are now negotiating for two of the home-This will be the first sale grown variety. Going on, we visited tle, the last mentioned herd having some extra good specimens.

herd, was a fine object lesson in the coming on that should materially im- with a record of 22,206 pounds of milk being inspected. results of upgrading by using a pure- prove the general quality of the herd, and 939.24 pounds of butter as a senior

bred Holstein bulls, and during the were handled by County Agricultural the Traverse City State Hospital. past year they had averaged about ten Agent Alex. MacVittle, and George A. Leaving the school, the caravan of Club Leader Marjorie Place, in charge. thousand pounds of milk per cow. This Proctor, secretary of the Tuscola Coun- sixty automobiles headed for Mr. Aitis more than double the average yearly ty Holstein-Friesian Association, and ken's place, stopping en route at the 8:00 a. m., the first stop made was at credit is due them for the success of Carter farm, where about sixty Hol-

The Gugel herd was inspected before the meeting and the inspection tour. And Then Lapeer.

Clinton F. Smith, secretary of the During the afternoon the herds of Lapeer County Holstein-Friesian Asso-Messrs. Stern, Hart, Bickel, J. Maurer, ciation, has started recently in the Hol-Hecht, G. Maurer, Roenicke, and Gar- stein breeding business. He has used ber were inspected and many good cat- good judgment in selecting his foundation and has a nice herd. Assembling The country around Frankenmuth is here at 8:30, we went the rounds of the garden spot of Michigan and no some sixteen herds in Lapeer county one could wish to see nicer fields of and finished at six in the evening-a

cattle here, like the farms, are well School has a herd of seventy milking cows, many of which show exceptional At Conrad Hecht's we saw one of the producing ability, but owing to somebest herds of the day, including a thir- one's neglect only about half of them ty-one-pound daughter of King Henger- are registered. It's the old story-evveld Palmyra Fayne and her dam. Mr. erybody's business is nobody's busi-Hecht has three daughters and a two-ness, and the state of Michigan is the year-old son of this thirty-one-pound loser thereby to the extent of thou-

Leaving the school, we visited the showing of Holsteins at the Imlay City Fair in September.

At the William Prieh's herd, the first herd visited in the afternoon, Mr. Pollock was called on for a demonstration on Holstein type, which was much appreciated, as a large number of new

Pierson, and H. C. Cramton were call- age production of the country. ed on and many good cattle were seen. Thursday was spent in Tuscola coun. The last two herds were among the Walter Hill, Robinson Brothers, and J. ty and several herds were inspected best visited during the day, the Pier- F. Rieman, and saw some very good which had been visited by the Saginaw son herd being one of the old estab-These lished herds of the state and well-

The Lapeer county breeders are for cows. worth going outside the county to see. the most part young men who are

> County Agent Bishop and Secretary from them frequently. C. F. Smith, and everything went along

Genesee on Saturday.

One other herd, the W. J. Gamble two-year-old was bred by the Pontiac here was the attendance of the calf Inka Princess Wog, a twenty-three twenty-eight members being on hand Local arrangements for this tour pound junior two-year-old, was bred by throughout the day with County Agri-

stein cows are used to produce Grade A milk. At Mr. Aitken's, where a special grade of milk is produced also, we saw one of the finest sights of the week, a bunch of heifer calves sired by King Ona, every one a picture, as straight as a line and all in the pink of condition. In fact, all the cattle around the place are "easy to look at," and anyone seeing the herd must agree that D. D., who is a crank on type, practices just what he preaches.

We were not able to see them all, as ten members of the herd, including seven two-year-old daughters of King Ona, were away at the Loeb Farms at Charlevoix to be bred to Sir Pietertje Ormsby Mercedes 40th. All of these are on a 305-day test.

Two of the cows on long time test, each with records above thirty pounds The Michigan Home and Training in seven days, were brought out for a demonstration on type, Mr. Pollock officiating, and everyone was much interested. It would be well worth while for all the Holstein breeders of the state, especially those who are just starting in the business, to pay a visit to this herd and study the animals so as to get the correct type in mind. Mr. Aitken believes in a small herd of highclass individuals, rather than a larger herd of mediocre quality, and the herd is certainly worth seeing.

> The next place was F. A. Dodge & Son's, who have a number of good record cows, including a thirty-one-pounder and half a dozen good ones on yearly work.

Spillane & Geiger, where we stopped for dinner, have practically the whole herd on yearly test and promise to make some very high records. Flint Pauline had 24,452.6 pounds of milk and 974.8 pounds of butter to her credit in 270 days, and still going fine. Five cows in this herd will produce together above 100,000 pounds of milk and 4,500 William Rider, Sam Park, H. P. Rol- pounds of butter during the year, which day. They are well-grown and well- lins, John Stock & Son, L. C. Walker, is equivalent to the product of a herd cared for, as are all the herds in the Frank Hartwig, H. F. Rice, Dewey C. of twenty-five cows showing the aver-

> During the afternoon we called on cattle at each place, finishing the day with Mr. Mott, who has a beautiful cluding a half dozen very fine Holstein

The Genesee County Holstein-Fries-At L. J. Hart's we saw a sire starting in the business with plenty of ian Association is to be congratulated energy and enthusiasm, and the indus- upon the number of very fine herds in teen Holstein breeders who organized in that county as a result of their ef- tour. Secretary A. C. Anderson, for-One other herd was visited late in a bull association some years ago and forts. More testing will be done there merly Professor of Dairy Husbandry the afternoon, the herd owned by Mon- started with a Michigan bred bull. Sub- during the coming year than in the at the Michigan Agricultural College, roe & Lewis, and some very fine cattle sequent purchases made elsewhere past, though we saw a number of good and now with the Freeman Dairy Co., were seen. This herd will also be dis- have convinced them that Michigan record cows, including a thirty-one- of Flint, as production manager, promises to keep the Genesee county breed-Local arrangements were made by ers stirred up and we expect to hear

Lenawee County.

Starting the second week of the series, we met at Adrian on Tuesday, Au-The Michigan School for the Deaf gust 3, for a tour of Lenawee county, The herd at the Michigan Farm was one of the last of the state insti- the second Holstein county of Michicounty, for it was circus day. Never- Colony at Wahjamega is one of the tutions to adopt Holsteins. They have gan, and one of the richest agricultural theless, a good crowd of breeders were newer state herds, as this institution made a fine start and already have a counties in the United States. Holon hand to inspect the Thomas Phoe- has been established only recently. A fair-sized herd, including two animals stein herds are numerous in this counnix herd of thirty head, which was the very good barn equipment and a num- which Mr. Hoffman, the steward, pur- ty and only a small portion of the terber of good animals were seen here, chased at the St. Paul National Sale. ritory could be covered, none of the The Stafford herd, which is a grade and they have a promising young sire One of these heifers, Pontiac Monica, herds in the west half of the county

An interesting feature of the trip cultural Agent Ralph Carr and County

Leaving the Adrian Court House at

(Continued on page 260).

Uncle Sam's Men Who Serve You

Dr. William A. Taylor, Works Quietly and Deliberately, But See What He and His Bureau Have Done-By W. J. Maddox

most leaders in their respective lines of work.

Among the men who foregathered at these informal talks was a quiet, thoughtful, painstaking young fellow, fresh from the fruit country of Michigan. He brought to the discussions not only the theoretical knowledge gained from a course at the Michigan Agricultural College, but the actual practical experience in fruit growing obtained on a real fruit farm where he spent-most of his youth. He was a good listener, and soon gained among his companions that confidence usually given to quiet men of his type. His comments, when he made them, were always well thought out and aptly put, a characteristic that has marked his utterances ever since,

A Thorough Investigator-

This man was Dr. William A. Taylor, who was to become one of the department's most efficient administrative officers, chief of the bureau of plant industry, and a man recognized throughout the country as one of the highest authorities on the growing, storage, shipment and handling of fruits. He is known as a very thorough investigator, one that carefully weighs all essential factors before arriving at a decision.

While Dr. Taylor came to the department shortly after graduation from college, he brought with him a great store of practical farming knowledge gained as a boy, which has stood him in good stead upon many occasions in making his bureau of actual, first-hand aid not only to the farmers of the country but to the people generally.

HE club itself, together with its agriculture. It was found that many sure the necessary ventilation. This ing regions of Texas and adjacent minds of the handful of men who in sharp points on the instruments used transit. the early days of the United States in cutting the fruit from the trees were Department of Agriculture met at one filed down; the oranges were cut close another's home in Washington to dis- without stems, and workers who hand- in the breeding and distribution of su-

high-sounding name—Pathologi- slight abrasions were made in the fruit not only greatly reduced the cost of states, probably to the extent of at cal Seminar—has become but lit- in picking and handling it. At the sug- transportation, but also greatly lessen- least one million bales. On this basis tle more than a memory, except in the gestion of department specialists the ed losses of fruit and vegetables in the advantage to farmers in substitut-

Notable Work with Cotton.

The bureau has done notable work \$20,000,000 a year.

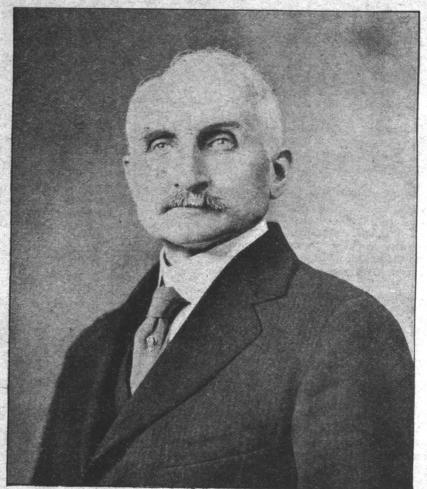
ing Lone Star for competing varieties may be estimated from \$10,000,000 to The Pima cotton is the basis of the

cuss various questions connected with led the fruit were provided with gloves. perior varieties of cotton. These have new Egyptian cotton industry of Aritheir work. They were all young men, By these measures the loss was cut been established in commercial culti- zona and California, in irrigated disat the outset of their careers—a group down from twenty to two per cent. At vation in different parts of the cotton- tricts that grew no cotton only a few destined to produce some of the fore- that time the orange crop was valued producing areas to which they are spe- years ago. In the Salt River Valley alone the Pima crop of last year, valued at \$20,000,000, returned nearly twice the cost of all the reclamation works of the valley, including the Roosevelt

Among the new varieties of grain introduced and developed in this country by the bureau is the famous durum wheat. This achievement met with rapid success, and durum wheat is now grown on a large scale. The 1918 crop was estimated at slightly less than \$100,000,000. Not only this, but an entirely new industry for this country, the manufacture of macaroni, for which this wheat is particularly suitable, was established.

These are only a few examples of what Dr. Taylor and the highly efficient organization of which he is the administrative head is accomplishing for the producers, and consequently for the consumers of the country. It is impossible to estimate the value of the work of the bureau of plant industry to the people of the country in dollars and cents. We can point to any one case, such as that of the orange growers, and show what it meant to them to have their losses cut down from twenty per cent to two per cent. The immediate, obvious gain is to a very small group of interests, but there is no calculating the indirect benefits to business and the public generally. It requires nothing short of a Benthamite mathematician to reckon them. It is very much like the dropping of a stone into a pool of water. The ripples spread in all directions and their impulse is felt over a wide area. There is no tell-

The password of the bureau is



Dr. Taylor is a Native of Michigan.

at about \$30,000,000 a year.

revealed in the art played by the group ments of the bureau under Dr. Taylor's Lone Star, Trice, Acala, Columbia, Durthe railways, the manufacturers of the of workers of which he had charge in direction, is its work to improve meth- ango, Meade, and Pima. The value of many supplies incident to the business coming to the aid of the orange ship- ods of handling, transportation and this work can be realized when it is and others almost without end. With pers and the railways, who for a long storage of fruits, vegetables and other known that the present annual produc- our present complex commercial life, time were at odds over the heavy de- agricultural products. It demonstrated tion of these varieties is estimated at it would hardly be an exaggeration to terioration of oranges during transit, the importance of pre-cooling fruit be- between \$200,000,000 and \$300,000,000. say that there is no line of business The loss averaged about twenty per fore shipment and the necessity of The Lone Star cotton belongs to the that does not feel the influence in some

cifically adapted. The most important ing where the commercial ripples from One very striking instance of this is Among the important accomplish- varieties bred and distributed are the this pebble do not touch—the banks,

cent of the fruit shipped, due chiefly shipping in ventilated cars. Its special- Texas big-boll type, with Triumph and way. to blue-mold. The railways and the ists worked out improvements in the Rowden, but has superior fiber and is shippers appealed to the department of construction of refrigerator cars to in- now grown largely in the chief produc- "science for service." The bureau

An Opportunity to Learn the Results of Fertilizers on a Variety of Crops on Muck Land





Corn at Left Grown on Muck without Fertilizer, while that at Right had an Application of Potash. One of the Sixty Experiments to be Considered at the Meeting of Michigan Muck Farmers to be Held Six Miles Southwest of Brown City, on Monday, September 6.

stands ready at all times to place the various economic phases of agriculture. diagnose and determine the cause of that Dr. Taylor is in a position to place knowledge and labors of its highly skilled specialists at the disposal of any lands; use of irrigated lands; soil fer- danger of introduction to this country. which is considered responsible for the sistant chief of division of pomology, tility, and the improvement and pro- Among the important field activities epidemics of black stem rust or wheat pomologist in charge of field investiga-

Heads Large Staff.

individual or group of citizens who are approximately 2,103 employes, 868 United States so that measures can be Michigan, June 23, 1863. He was gradseek advice upon any subject connect- of whom are located in Washington, D. taken without delay for checking their uated from the Michigan Agricultural ed with plant industry—and this cov- C., and 1,235 engaged in the work of spread or means advised for restrict- College in 1888 with the degree of B. ers a very wide field, indeed. It in the bureau outside of that city. As oc- ing their further introduction. Notable S., receiving his doctor's degree from cludes investigations of the causes, pre- casion arises representatives are sent work along this line has been done that institution in 1913. Before entervention and treatment of diseases of out to various foreign countries on ex- with regard to diseases of wheat, cot- ing the government service he manplants, including fruit, ornamental, ploration work in search of new plants ton, vegetables and fruit. Closely con- aged a fruit farm and nursery in Michshade and forest trees; the introduce that can be introduced and developed nected with this is the work of stamp- igan. He entered the department of tion of new varieties of plants; the im- profitably in the United States, or to ing out carriers of destructive plant agriculture as an assistant pomologist provement and utilization of grazing study plant diseases where there is diseases such as the common barberry in 1891 and served succesively a as-

duction of cereals. Many others could of the bureau is that of investigating which so greatly reduces the crop of tions, and as assistant chief of the bube mentioned, for the work touches and studying methods for eradication spring wheat in some seasons.

reau until hi plant life in all its relations to the of plant diseases. It is endeavored to the life in all its relations to the of plant diseases. It is endeavored to the life in all its relations to the of plant diseases.

new plant diseases just as soon as they his great talents at the service of the Under Dr. Taylor's direction, there develop or are introduced into the country. He was born at Chelsea,

reau until his appointment as chief in

Credits, Loans, Oils, Mills, Meats

HE proposition to establish by act of congress a cooperative system of rural credits based on personal security is receiving the endorsement of many well-known farm leaders. The National Society of Rec- bill proposes to use one of the six big- omargarine and other butter substi with the public and sales are slow, reretary Holstein-Friesian Association of stitution in the country is stronger production are small, the work being nouncements might have on the meat tary American Shorthorn Association; companies." William H. Caldwell, secretary Guernsey Cattle Club; Robert J. Evans, sec- TREASURY department officials reretary Duroc-Jersey Association, and himself, to prepare a rural credits bill to be presented to the congressional tile interests that there will be an protecting the dairymen and stock raisrural credit committee created by the recent agricultural appropriation act. industries. Reports of manufacturers, Mr. Dinsmore has petitioned the chairmen of the committees of agriculture and banking and currency of both bodies for a judicial hearing on the bill to be pressed by the committee of the National Society of Record Associations, and has asked that September 1 be designated as the date when the cancellations of orders, together with bills may be presented to the committee and that October 15 be designated as the last date at which defenses may be filed by the interests which would be adversely affected by such bills, should any become a law. The hearings before the house and senate com-

mittees will begin on November 8. The rural credit committee of the record society are agreed on the principles of the McFadden bill and have engaged R. C. Milliken, a Washington monetary statistician, as an expert to prepare a bill to be presented to the congressional investigating committee and appear before them to establish its merits.

"Nothing could be fairer," says Mr. Milliken, "than the hearing which the record association has asked for, for it gives every interest affected an opto do so in the secret lobby.

Our Washington Correspondent Finds Much News of Interest to Farmers

ord Associations through its secretary, gest life insurance companies to take tutes, lard compounds and the like, all gardless of much advertising and low Wayne Dinsmore, who is also secretary the place of the British 'Acceptance coming into direct competition with prices. It is also evident that the war of the Horse Association of America, House.' Certainly that would give a American cottonseed, butter and other department officials are oblivious of has appointed a rural credits commit wide market for our productive farm animal products. The bulk of this stuff the depressing psychological effect tee composed of F. L. Houghton, sec- credit paper, as no other financial in- comes from the Orient where costs of these sensational price slashing an-America; Frank W. Harding, secre-than one of our larger life insurance performed by cheap Coolie labor. It producing industries.

> early resumption of activities in these ers from this foreign competition. fall. Nevertheless they are predicting still lower prices for wool and woolen goods. As evidence of this they point the world today than ever before, and return of goods to the woolen mills have reached as high as \$200,000,000.

Friends of the French "truth-in-fabric" bill are urging sheep raisers' associations to make a united effort before congress convenes in December, to formulate a program of action which will enable their representatives to come before the congressional committees at the hearings, backed by the strongest possible support from the public, and with arguments which will enable them to answer satisfactorily and convincingly every question asked by members who are opposed to the bill. It is thought that failure to secure favorable action on the bill last spring was due to the lack of definite, organized team work in defense of the bill."

and insurance companies, either in the chairman of the committee. At the the corporation is ended. secret lobby or open court, and the September meeting steps will be taken The director of sales of the war

comes into direct competition with the products of the stock and dairy farms products of the stock and dairy farms THE new movement to organize the in this country and it is the belief of farmer borrowers represented by

they say, show that mills that have competition of imported vegetable oils, Farm loan associations in twenty-five been closed will start again early this Secretary A. N. Loomis of the National different states have already joined the to late reports showing more wool in substitutes. He quotes the Wisconsin Scores of letters approving the moveuable food products as sources of en- ing that there is no occasion at this ergy and their use for that purpose time for the formation of such an orshould be encouraged, but they should ganization. sell under their own banner and be used in nutrition for exactly what they terest to farm folks is the fifteenth inare worth. To remove the butterfat from whole milk and replace it with ism, which will be held in this country cocoanut oil and then claim that the product is equal to whole milk for the ed forty years ago. The sessions will nutrition of growing children is not be held at the Pan American building true."

portunity to appear before the congres-sional investigating committee by an A Board of Farm Organizations ap- \$50,000,000 by order of President Wil-ism in various countries will be given expert of its own selection and point pointed a committee to investigate the son. Last month the capitalization was attention. The conference is a scienout the defects of the bills presented importations of vegetable oils and cer-reduced \$300,000,000, and the amount tific organization interested in studyby the farmers and stock raisers. This tain other farm products and their ef- turned into the treasury. The \$100, ing alcoholism as a disease, and is said would force those adverse interests in- fect upon American farm products in 000,000, which is the present reduction, to be without prejudice for or against to open court to point out any objecthe home markets. These include cot- will be turned over to the government, any one method of dealing with intemtions they may make to such bills. But ton and corn, large quantities of the and the remaining \$50,000,000, with perance. should any become a daw. The hear- latter product being imported from the some \$30,000,000 profits, will be turned to meet the adverse interests, banks Argentine, according to C. D. Holman, back to the treasury when the work of the apple orchard industry in the Unit-

farmers and stock raisers had best by the committee to coordinate the partment announces another big meat world. Apples from American orchards meet them in open court than attempt work of all the farm organizations and sale, asserted to be "the beginning of are now being exported to eighty difvarious other interests concerned, so the biggest sale of canned meats ever ferent countries, say the fruit market "The real purpose of the McFadden as to be able to give a uniform and known," and at figures "below pre-war experts of the Bureau of Markets. Figbill is to standardize productive farm logical presentation of the case before prices." "Through the cooperation of ures compiled by the bureau show that credit paper, just as Great Britain has the tariff board and the congressional thousands of wholesale and retail deal- the average yearly exports of dried and standardized commercial credit paper. committees. There are now coming ers, more than 60,000 postmasters, fresh fruits for the pre-war period of Britain did that by creating the 'Ac- into this country from foreign ports 5,000 bankers and mayors in virtually 1910-1914 were 504,911,000 pounds. ceptance House, great importing firms many millions of pounds of vegetable every city and town in the country, With two low years the average for which had established international oil products, including 258,229,102 many million dollars' worth of canned the period 1915-1919 were 518,259,000 credit. That enables English mer-pounds of copra, 133,212,423 pounds of corn beef, corned beef hash, hash, pounds, an increase of 2.6 per cent. chants of second rate credit to obtain peanuts, mostly shelled, 269,226,966 roast beef and bacon will be sold to The 1910-1914 imports of fruit averagthe lowest open market rate for their pounds of cocoanut oil, 2,064,363 gal- the American public." These record- ed 252,708,000 pounds, as compared commercial paper by inducing one of lons of peanut oil, and vast quantities breaking price-wrecking meat sales are with 109,708,000 pounds, as compared these great 'Acceptance Houses' to be- of soy bean oil and cottonseed oil, announced with big headlines in the showing a decided decrease since 1914. come their accepter. The McFadden which are used in the prduction of ole-city papers so frequently it would

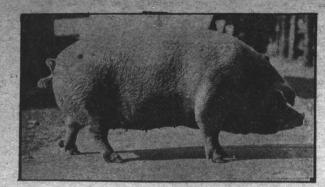
seem that the government would soon be able to dispose of its comparatively small stock of canned meats. It is evident, however, that these meats offered by the government are not popular

port that they are receiving infor- the committee that the time has arriv- the four thousand farm loan associamation from districts having large tex- ed when means should be provided for tions into a national organization is making rapid progress, according to the National Board of Farm Organiza-As another means of combatting this tions, which is promoting this project. Dairy Union, suggests the education of National Union of Farm Loan Associathe public to the comparative values of tions, and in all the states they are real butterfat and the vegetable oil meeting with much encouragement. Agricultural Experiment Station Bul- ment are being received. The union letin 291 as saying that "no plant oils will be affiliated with the Board of so far investigated, and these include Farm Organizations, but will be a sepcottonseed oil, almond oil, cocoanut oil arate organization with its own reprepeanut oil, and sunflower seed oil, con-sentative in Washington. The federal tain the fat soluble vitamine in appre- farm loan board, according to the latciable quantities. It is false to claim est information I have, has not given these as substitutes for butterfat. We its approval to this new national union do not condemn them, for they are val- of loan associations, the officials feel-

> A coming event of considerable international conference against alcoholfor the first time since it was organizin Washington, September 21-26. The program includes a special study to be THE capitalization of the United made of the effect of prohibition in the States Grain Corporation has been United States and the effect of the

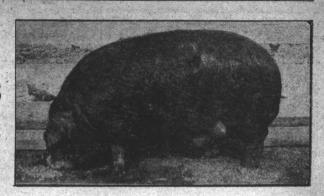
> > Since the wonderful development of ed States and the exportation of fruits began this has become an apple eating

> > > E. E. REYNOLDS.



Big Fair at Grand Rapids

This West Michigan Institution is Building Up a Strong Farmer Patronage.



swer many of the questions in the minds agricultural interests of the state. of those interested in better farm crops,

est being shown by the farmers and stock men throughout the state there is sure to be a decided improvement in the quality of the crop exhibits and live stock entered and the number of farmers and breeders making initial shows. The swine entries in particular are expected to reflect the increasing interest in that branch of animal husbandry, and the almost total elimination of the smaller type of hogs held to so strongly by many of the older breeders of the state indicates which way the straws are blowing. Two

visitors.

indicate in a convincing manner the and cause the different farmers' organ- has been successful along this line is rural homes. progress the state is making along ag. izations in the state to feel that the due to the fact that he is a practical of horses, beef cattle, dairy cattle, have failed to recognize the importance managed before the public eye. sheep, swine, poultry and pet stock, of home exhibits instead of crowding In order that the people of the city ever before.

and at the same time have the judging out Michigan exhibits and attempting may see the sights at the fair without of the exhibits so arranged as to an- to show up, rather than build up, the taking a day or two off, a night fair the bee-keeping industry here in Michwill be one of the features of the 1920 igan Mr. Lilly has arranged for the Live stock judging by club members West Michigan Fair. All of the spe- most interesting educational bee and better live stock and more profitable and high school boys is to be made a cial features will take place in front of honey exhibit ever put on here in Michmethods of farming. From the inter- special feature of this year's fair, and the grandstand and several entirely igan. The exhibit will show the bees

N spite of the recent fire losses out individual exhibits from Michigan the manager of successful county fairs mercialize on the exhibits to an extent which have made it necessary to farms and various farm organizations he has steadily worked his way to the that farm women may not feel perfectlimit space for certain exhibits, the in the state. This is a policy of fair front until he is now looked upon as ly free to visit the booths and familiarmanagement of the West Michigan Fair management that is sure to bring the one of the most capable fair managers ize themselves with the practicalibity expects to set a new mark which will fair into popular favor among farmers, in the country. One reason why he of the appliances and conveniences for

West Michigan seldom fails to bring ricultural and live stock lines. Every management is endeavoring to keep farmer who has a thorough knowledge out a praiseworthy horticultural show. effort possible is being made to bring-apace with the spirit of the times. It of the farmer and his problems; there- Fruit of all kinds is plentiful this year. out a large and complete exhibit of all is to be regretted that the managers fore he has never failed to keep the and many of the state's most promikinds of farm crops and all the breeds of some of our other big Michigan fairs agricultural features of the fairs he has nent exhibitors have made plans to bring out better exhibits this fall than

Realizing the growing importance of

at work, bee-keepers' supplies and finished apiary

products. All of the beekeepers of the state and those interested in the industry may see the bees at work in glass cases and gain a knowledge of the various methods of handling them as well as refining the products and putting them up in shape to bring the top market prices. Bee-keepers from all parts of the state should plan to visit this exhibit, as many new phases of handling apiaries and apiary products will be thoroughly demonstrated in this exhibit.

No expense has been spared to make

These remarks are hazarded as revehibits, cow-testing association work and mals excel others for the economical ditions will this scale of admission lent in indicating to our readers the action which the management of this Special attention will be given to the big fair is taking in its special educahibit will be in charge of an expert who projects will find much to interest exhibit of labor-saving devices for the tional activities. The particular charcan answer any question of interest to them, even though they take no active rural home. One of Mr. Lilly's hob-acter and diversified types of farming bies is that of making the fair of spe- dictate the kind of fair the manage-President Lyman A. Lilly is strong Mr. Lilly, the new president of the cial interest to the farm women, and ment is endeavoring to hold at Grand hibitors to the end that the fair may than twenty years' experience conduct- abundant space for exhibitors of var- thing of the complex farming condiprove of the greatest educational value ing county and state fairs, and all of ious mechanical aids to lessen the tions of western Michigan to apprecipossible to the maximum number of his friends among the patrons of the drudgery of housekeeping on the farm, ate what it means to put on a fair at visitors. For that reason he has re- fair are pleased to note that he now All of these exhibits are going to be in Grand Rapids that serves properly all

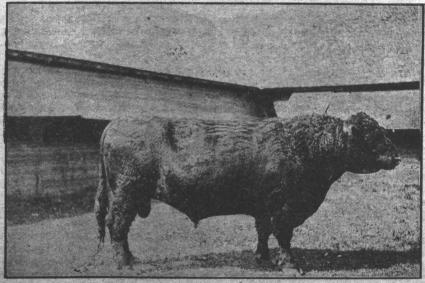


Everyone is Interested in the Live Stock Parade.

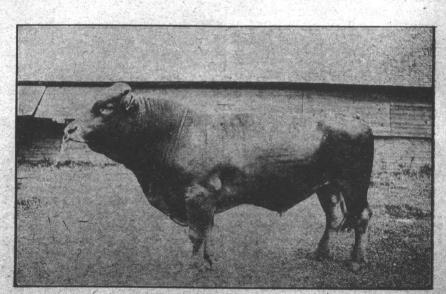
prominent breeders of draft horses it is perhaps well to mention that older new features will be introduced. A gen cost of producing dairy products will production of various products. Boys charges be increased. be given due prominence, and the ex- who are interested in pig and calf club part in the judging contests.

have signified their intention of enter- people as well as the boys may profit eral admisison of twenty-five cents will the special entertainment features of ing some of their best animals in order largely from some of these demonstra- be charged for the night fair, and fifty interest to all visitors at the fair, and to give the farmers of Michigan a bet- tions. The work will be in charge of cents for those who enter the grounds at the same time weed out all of the ter idea of what constitutes real merit capable experts who are capable of ex- before five o'clock in the afternoon, fakes and indecent features. in draft horses. In the dairy cattle ex- plaining the reasons why certain ani- Mr. Lilly guarantees that under no con-

for taking care of the many small ex- West Michigan Fair, has had more no effort has been spared to reserve Rapids this year. One must know somefused to accommodate many large ex- has a free hand in the management, charge of competent demonstrators, of the interests represented in the suchibits that would of necessity crowd Beginning some twenty years ago as and no attempt will be made to com- cess of the agriculture of that region.



One of the Blue Ribbon Galloways.



The Fair Brings Together a Quality Exhibit of Island Cattle.

INSURE YOUR

Before attending County and State Fairs. The increased traf-fic upon the highway and the visiting of the County and State Fairs causes many additional automobile accidents. The prudent business man and farmer will take out an automobile in-surance policy and keep his au-tomobile locked, also put the car in a fire-proof garage when visiting the large cities.

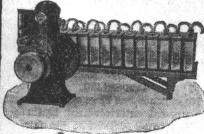
During the first six months of 1920 the Citizens' Mutual Automobile Insurance Company of Howell, Michigan, paid 840 claims, a total of \$119,575.16. The Company has about 400 agents scattered through the state and experienced officers, adjusters and attorneys to protect the policyholder.

In case of loss give the Company immediate written notice and in case of a serious accident notify us by telephone or telegraph.

The Company is carrying auto-mobile insurance at a low cost, yet is building up a substantial surplus so that claims can be promptly paid. Why insure in a small company when you can insure with a large company with \$110,000 of cash and with an income prepared to pay the claims, promptly? Call on the local agent or write,

Citizens' Mutual Automobile Insurance Co. Howell, Mich.

REGALITE



Farm Lighting Plant

A % k.w. generator directly connected with a 2 H.P. air cooled motor. Capacity 45 20-watt lamps. Willard storage battery. Dealers wanted. Write for particulars.

REGAL GASOLINE ENGINE CO. Grand Street, Coldwater, Mich.

than 2c a cord, then supply big demand for fire wood at \$20 a cord up. Beat the Coal Shortage!

OTTAWA JOG SAW





r as an investment you are thinking of buying de where farmers grow rich, and at once for this of of LANDOLOGY. It is free on request. Address SKIDMORE-RIEHLE LAND COMPANY Skidmore-Riehle Bldg., Marinette, W

Please Mention The Michigan Farmer when writing to advertisers

News of the Agricultural World

RAIL SITUATION IMPROVING.

railroads of the country, the railroad ment, although still upon a very modcar service commission declared in a crate scale of unemployment in some Fred Taylor, R. Baker, L. W. Harwood, recent statement.

riod in 1919.

The car shortage for the week ending August 6 amounted to 125,219 cars, compared to 132,370 cars for the previous week. The roads during the week of August 13 were unable to move 72,213 cars, while for the previous week the car accumulation was Slovakia produced 237,038 tons of sug-84,949.

REDUCE LAKE GRAIN RATES.

READJUSTMENT of ex-lake grain rates to stimulate the movement of grain via the Great Lakes to the Lake Erie ports and thus relieve congestion New York has been announced by the Interstate Commerce Commission. Special permission was given to the railroads to make effective September 1 Curtis & Son, Myers Brothers, and C. county. rail rates from the lower Lake Erie ports to the Atlantic seaboard, which will result in making the lake-and-rail rates about three cents per hundred pounds lower than the all-rail rates. Heretofore the rail rates were higher. "In the hope of stimulating a move-

ment of bulk grain from Lake Superior and Lake Michigan ports to Erie 🗲 ports for movement by rail beyond the Atlantic seaboard territory, both for seaboard, releasing cars at the westreadjusting the ex-lake rates on grain up to Sault Ste. Marie. in bulk from Buffalo, Erie and Fairport by applying to those rates lower percentages of increase than were authorized by the commission in ex parte No. 74, increased rates, 1920."

WOULD HOLD WHEAT.

ORGANIZED farmers of Missouri. Kansas, Oklahoma and Nebraska are planning to bring about an advance in the price of wheat, to the end, they say, that they may make a reasonable profit on their product. At a conference in Kansas City recently of about thirty representatives of the Farmers' Union from Kansas, Oklahoma and Nebraska and the farm clubs of Missouri, it was decided to urge the farmers of the four states represented to withhold their wheat from the market, and thereby obtain a minimum terminal market price of \$3 a bushel.

IS PEAK OF INFLATION PAST?

has been marked not only as regards thusiastically received and we called of their lives. It's wonderful and they industrial developments themselves, Mrs. Dora H. Stockman to act as chair- can thank you and the Michigan Farmbut also as regards credit. It has been man. Elmer E. Ball, of Albion, secre- er for this, the greatest tour I ever particularly exemplified in the relation tary-treasurer of the Calhoun County heard of in my life. It ought to be ship between business and lending con- Farm Bureau, was elected president; repeated next year because it has been ditions. Notable among the months' Mrs. Dora H. Stockman, member of such a tremendous success this time." developments has been a tendency on the State Board of Agriculture and

the part of commercial rates of inter- E. Winne exhibited their herds for the ary is now being accomplished by the serve institutions; the further develop- and program. lines of business due to cancellation of Reed Brothers, George Knisel, Fred Commercial freight loaded during the orders and poor transportation of fuel Knopf, Jr., and C. B. Faler were visitweek which ended August 7 comprised and materials; the liquidation of stocks ed, and some very fine cattle were 942,000 cars, compared with 914,000 of commodities which had been held cars during the previous week and upon a speculative basis; and the grad-lock gave the calf club members a dem-872,000 cars for the corresponding pe- ual elimination from banks of paper collateral by such goods.

CZECH SUGAR CROP 237,038 TONS.

CCORDING to reports at the Department of Commerce, Czechoar during the nine months' period ended April 30. Of this total 71,715 tons was refined, 109,140 tons crystalized, and 34,477 tons raw sugar.

HOLSTEIN TOURS SUCCESS.

(Continued from page 256). on the rail lines between Chicago and J. W. Ladd's, where greatest interest remarks of many in attendance, the

est to go to slightly higher figures, not- benefit of the visitors during the fore-HE greatest improvement in the withstanding the maintenance of the noon, and the party returned to South car shortage situation since Janu- same rates of discount at federal re- Park in Adrian for the basket picnic

> During the afternoon the herds of seen. At Reed Brothers' farm Mr. Polonstration of Holstein type, which was very interesting and instructive to the boys and girls and to the older breeders as well. The way some of the boys answered the questions "Polly" asked showed that they had been receiving good instruction regarding dairy cows.

At the Knopf herd another demonstration was given on the type of the sire, using a son of King Ona, owned by Knopf and Knisel. The Knopf herd was one of the best seen during the day. Mr. S. H. Munsell, who is inspecting for the next state sale, selected a cow at Knisel's and one at Knopf's, which will be sold at the state sale at Jackson, October 19. Judging from the centered about three calves owned by day was very well spent and another the three boys as members of the club. trip will be planned for next year, cov-E. L. Smith, Oscar Carlson, N. S. ering some of the other portions of the

Farmers' Auto Tour

By J. H. Brown

export and for domestic use, and thus est ever pulled off in the entire coun- tion will be known as the "Michigan relieving congestion on the all-rail try. There were seventy-one cars reg. Farmer's Automobile Tour Associalines between Chicago and the Atlantic istered on the west side and thirty- tion." Every tourist who participated seven on the east side of the state, in the tour to Mackmaw and the Soo ern lake ports for return to the grain Over four hundred tourists took part has become a member of the organizafields and reducing the long haul of and rode over the whole or a large portion and the object will be to hold an empty cars from the seaboard to the tion of the route on both pikes to Mack- annual reunion camp at some central west," the commission said, "the com- inaw. Just thirty-seven cars and over point that will be most convenient for mission suggested to the trunk line car- one hundred and fifty tourists follow the four hundred tourist-members. riers from the Lake Erie ports to the ed the Michigan Farmer "Official Car"

the lower peninsula. Nearly every for M. A. C. for a two-nights' camp. farmer in the tour belongs to the Farm

atternog

HE "Michigan Farmer's Automo- lecturer of the Michigan State Grange, bile Tour" for 1920 is over and was made vice-president. The writer recorded as the greatest and fin- is secretary-treasurer. The organiza-

Mrs. Stockman suggested that the seaboard the advisability of promptly across the Straits of Mackinaw and reunion next year be held on the Michigan Agricultural College campus, to Among the tourists were leading which we all agreed. And so next June, farmers and their wives from nearly just before commencement, we will all every county in the southern half of pack up our camp equipment and hike

Many, many times during the tour, Bureau and many of them are officers after we reached the Traverse City and members of the Grange. There fair ground camp, the tourists came to were sons and daughters from the us to speak words of praise for the farms to the number of fifty or more wonderful time they were having. "It whom we call young people because is the greatest time of our lives," and they are from fifteen years downward. "We will never forget the Michigan There were included three candi- Farmer for making it possible for us dates for governor of Michigan, several to enjoy such a tour together as one judges, preachers, city superintendents family and see nearly a thousand miles of schools, high school teachers, state of Michigan country, such fine farms and county officials, prominent officials and fruit orchards, such a wilderness of the State Grange and Michigan of potato fields, the finest we ever saw Farm Bureau. State Highway Com- anywhere." Frank Rodgers said: "It misioner Frank F. Rogers joined us at is the greatest sight I ever saw and Mackinaw City. These tourists made this big company with the cars and up as fine a crowd of farmers as ever equipment are traveling together in got together anywhere. They got so perfect military order without any miswell acquainted with each other, and hap. It will certainly be an eye-opener enjoyed the daily programs held each to many of these four hundred tourand evening at the camping ists, and an educational treat to the controls, that we finally called them young people in the tour." Milo D. together on the extreme point of the Campbell said: "In all my life I never MANY changes in business condi- lower peninsula where the waters of saw such a large crowd of farmers and tions are taking place. The month- the straits rolled about us, and suggest- city folks traveling together over the ly statement of the federal reserve ed that we organize the members of country in such fine order, with everyboard says that the month of July has the tour into an association for annual thing going like clock work. The camp been unmistakably a period of business reunions at some central point in south- scenes I will never forget and the tourand credit transition. The transition ern Michigan. The suggestion was en- ists all say they are having the time

(Continued on page 283).



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"The use of a truck on Goodyear Cord Tires has increased my land value by bringing my farm closer to town. Power machines, assisted by this pneumatic-tired truck, offset my labor shortage. The Goodyear Cords on my truck have traveled about 10,000 miles to date. Solids can't go into the soft fields; pneumatics go through easily—haul 450 crates to 40 by team. Hard to sell a second-hand truck on solids here."—Glenmore Green, Farmer, Fort Valley, Georgia

EXTENSIVE rural experience, like that related above, has confirmed the tendency of farm land prices to increase when Goodyear Cord Tires are used to cover long or difficult hauling routes.

Fertile acreages, ten or twenty-five miles from the nearest town, have become more profitable and hence more saleable due to improved transportation on these able and rugged pneumatics.

What formerly was a tedious and jarring haul by either team or motor truck, has become a brisk, smooth trip due to the grip, cushioning and spryness of the big Goodyear Cord Tires. These virtues frequently enable short cuts to market, bring more markets within easyhauling range and pave the way for the safe, punctual transit of perishables and shrinkables.

The huge strength of Goodyear Cord construction, developed with the manufacturing care that protects our good name, makes possible the utmost utility and economy of this type of pneumatic tire.

Detailed information, concerning the manifold advantages of pneumatic-tired trucks and general farm motorization, will be sent on request by The Goodyear Tire & Rubber Company, Akron, Ohio, or Los Angeles, California.

GOOD/TEAR CORD TIRES

OUR SERVICE DEPARTMENT

FENCES ON HIGHWAYS.

How far should we place a fence from the middle of the road on our own land, so as to be sure it is on our own land? Do telephone poles form the land, so as to be sure it is on our own land? Do telephone poles form the boundary of the road? If the fence is on our own land, has any person without permission, the right to break through the fence with machinery, for instance, threshing engines?—M. N. T.

The width of the highway is ordinarily sixty-six feet. The statutes (Comp. weather the bluegrass plants usually Laws 1915, Sec. 4401), and following become dormant and the leaves may provide how the highway commission- entirely die and dry up. er may have encroachments removed. er may have encroachments removed.

It has quite generally been held that should be removed or much of the bengrew fine until recently.

Mrs. J. L. C. a traveler finding the highway ob efits of the pasture may be lost. When structed by a sudden flood, washout, the fall rains and cool weather appears snow-drift, fallen tree, or the like, may the plants quickly revive and will grow ed by too much concentrated food and 17 of the Michigan Agricultural College. go over the adjoining land without lia- late in the fall and thus provide a good not enough exercise. Instead of so bility if there is no other route avail- pasture. able that is not unreasonably long, or which the traveler had sufficient notice unproductive. If the sod becomes root- ten per cent of beef scrap and the rethat he might have avoided the ob-bound the use of a disk or harrow may mainder bran, with possibly a little I have a patch of sugar cane which structed point. Even then he would improve it, but this is not very widely low-grade flour if it can be obtained. I drilled in rows and now it is about structed point. certainly be liable for any injury un- practiced. necessarily inflicted. No decisions by

ESTABLISHING PERMANENT BLUE of such a practice. GRASS PASTURE.

When can this seed be sown to the best advantage, this fall or next spring? Should it be sown alone? Where can I get the seed? I would like general information on bluegrass

culture. Huron Co. J. C. C.

Early fall or early spring are the most unfavorable time is at the beginning of hot dry weather in summer.

Bluegrass is not a rapid growing othy, rye grass, red-top or orchard rye stubble by discing. In order to grass along with the bluegrass. These grasses grow much more quickly and furnish considerable top growth while the bluegrass is becoming established and forming a good sod that will be permanent.

In choosing a mixture of grasses one should consider the fertility, drainage, and acidity of the soil. On the more fertile soils, timothy, red clover, and white clover may be used with the bluegrass, while on the less fertile soils it is better to use red-top, orchard grass and alsike clover. All of the last named plants will stand acidity, and poor drainage, better than will timothy and red clover.

In that wheat is to be sown on this land it is concluded that it is quite ferlent practice is to sow six or eight culture of sitrogen from the proper and give what information he can con- one through accident. pounds of timothy and six to eight culture of nitrogen-fixing bacteria. The cerning the trouble. He can also pass pounds of bluegrass with the wheat this fall. Next spring sow four to six pounds of high-grade red clover and one to two pounds of white clover, or one may use a mixture of three to four pounds of red clover, two pounds of alsike and two pounds of white they freshen when in fair condition? clover.

The germinability of bluegrass seed and quality of the roughage. weigh at least twenty pounds to the will help out wonderfully where skim- ticed for years in Michigan. Treating substantial mass through which to tack.

though its germinability is low.

Farm Bureau Seed Department, Lan- grass and green forage crops. sing, Michigan.

In managing a bluegrass pasture one should remember that during hot, dry

When in the dormant stage the stock

necessarily inflicted. No decisions by the supreme court of this state on the supreme court of this state on the subject have been found.

J. R. R.

J. R. R

which to handle an old bluegrass pas- dlings, six parts of corn meal and one able to reseed these.

VETCH CULTURE.

Would winter vetch be likely to catch this locality of harvesting winter vetch for seed?

Winter vetch is very often seeded in sary to use rye with the vetch. The sary to use rye with the vetch. The gets droopy, then so weak it cannot rate of seeding varies, but the use of walk, and would finally waste away fifteen to twenty pounds of vetch with and die, if we did not kill it previously.

one bushel of rve appears to be the Oakland Co.

B. H. F. one bushel of rye appears to be the general practice. A large amount of vetch may cause trouble at harvest that the hens may have tuberculosis. borhood?-C. H. K. time. With the mixture suggested the Perform a post mortem on one of the crop may be harvested with a grain hens and see if the liver is covered and sell shares, he must also get the binder. As vetch shatters badly when with the greyish-white nodules which approval of the Michigan Securities ting and handling can be done when case it will pay to kill off the flock and and for the purposes of incorporation the grain is tough with dew. No meth- start again with healthy birds after and of obtaining approval by the comod of handling will prevent the loss of the house and yards have been thor- mision he should employ an attorney succession, thus utilizing the seed and if you have a large and valuable ate they are each individually liable which falls on the ground. The first flock of poultry it will certainly pay for all debts without limit, and persontime a field is used for vetch the seed to have a veterinarian inspect the flock ally liable for injuries received by any-

SHOULD COWS BE FED?

they freshen when in fair condition? If so, what kind of grain is best suited to their needs? What is the best feed

regulated by the condition of the cow takes place when the grain is sprouted. come nearly eliminated from the flock.

bushel and germinate at least fifty per milk is not at hand. If self-feeders are wheat for smut will eliminate the dancent. Bluegrass is such a persistent used ground corn and oats, say one ger from wheat smut, but naturally has plant that good results are obtained pound of tankage to nine pounds of the no connection with the subsequent mafrom using small amounts of seed even grain mixture should prove more pala-nuring of the field. The function of Seed may be obtained through the larly when the pigs have the run of fect the grain which is planted in order

W. M. K.

RATIONS FOR DUCKS.

My half-grown ducks become weak in legs, their necks crook, and then they die in a few days. They are out on range. I feed cracked corn. They

much cracked corn try a mash contain-Old bluegrass pastures may become ing about fifteen per cent of corn meal, Five per cent of coarse sand can also Top-dressing with 200 pounds of acid be added to the mash with good re-

About the most practical manner in used consists of six parts of wheat mid-much. Ducks need plenty of water in dishes cause much damage. deep enough so that the nostrils can be covered when they drink. They also Early fall or early spring are the well if disced in or cultivated in with need shade on their range on hot sumbest times for seeding bluegrass. The spring-tooth harrow after rye, on a mer days as growing ducklings do not most unfavorable time is at the begin- loose sandy soil? What is the mode in thrive when exposed too much to the mer days as growing ducklings do not thrive when exposed too much to the

HENS BECOME DROOPY.

Every few weeks one of our hens Oakland Co.

The symptoms described indicate

IS WHEAT SMUT SPREAD THROUGH MANURE?

Top-dressing wheat, therefore, with is very low and often the seed contains Middlings and oil meal make a fine manure containing smutty straw will

table and give good results, particu- the seed treatment is merely to disinto allow the young sprouts to grow without becoming infected with the wheat smut fungus. Since the infection period is restricted to the short period in which the sprout is coming out from the kernel and does not take place after the plant gets above the ground, seed treatment gives remarkable results in preventing smut. For full discussion of methods of treat-Leg weakness in ducks is often caus- ment, send for Extension Bulletin No.

SUCKERS ON SUGAR CANE.

fourteen or sixteen inches high and there is from three to as high as eight suckers on each stalk, and as the stalks Another easily made mash sometimes for fear that it will sap the stalk too

It is not advisable to attempt cutting I have a field that I am summer-fal- ture is to destroy the weeds and apply part beef scrap. This can be moist- the suckers from sorghum plants. It lowing for wheat, which I would like stable manure. If there are bare or ened and made into a crumbly mash is usual for sorgdum to produce a great to seed to bluegrass for permanent pasup in a few minutes. Do not overfeed the plant is grown for forage and sy-A. L. Bibbins. so any of the mash will be left after rup purposes in Michigan and not for their appetites seem about satisfied. seed, the prolific suckering does not J. F. C.

COOPERATIVE THRESHING.

I have bought a new threshing ma-chine, and want to sell stock (shares) to my neighbors. If we go together and buy this machine, have we a lawful right to thresh our own grain without right to thresh our own grain without threshing for others who refuse to invest in stock of machine? And should we thresh grain for one who has not invested in this machine, does it make us liable as a (public) thresher to thresh for all and pass none by? And must we incorporate in order to satisfactorily and lawfully cooperate together with this machine in our neighborhood?—C. H. K.

If the writer wishes to incorporate dry, less seed will be lost if the cut-indicate tuberculosis. If this is the Commision before he can sell stock, some seed. On this account some farm- oughly cleaned and given a chance to near by to handle the matter. There ers on sandy land use the same field rest. From the brief description we is no duty to thresh for every applifor rye and vetch for several years in cannot tell much about the conditions cant. Unless the cooperators incorpor-J. R. R.

HEN WITH TUMOR.

coming down with the disease.

Tuberculosis is a very dangerous disease to poultry because there is no cure and it spreads rapidly.

One of my hens had a swelling at side of the head which has now extended the length of the neck to the crop. This swelling is very hard. The hen cannot eat nor drink. What would you call this, and what can I do for it? call this, and what can I do for it? Sanilac Co.

Hens are subject to tumors of varithe bluegrass and white clover will have formed a sod that will stand the tramping of cattle and provide a very good pasture which will be of considerable permanency.

Only the best of seed should be used.

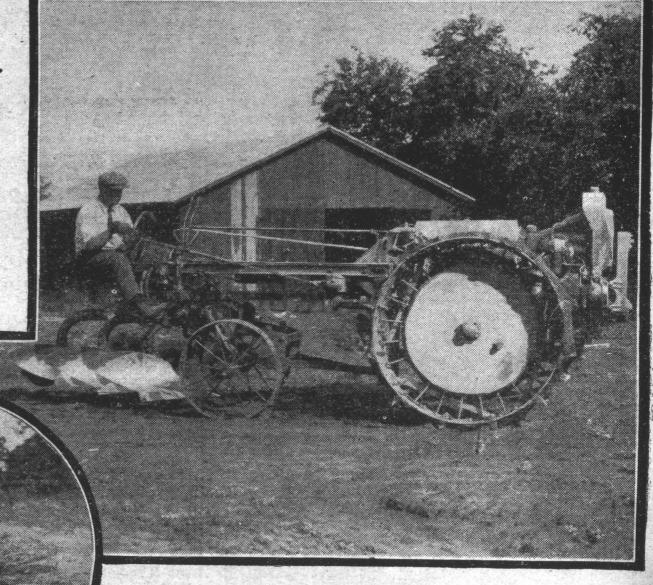
Only t ous kinds and this may be such a

Black unbarred mosquito netting is considerable chaff, causing it to vary grain mixture for feeding young pigs. not lead to infection of the young a satisfactory and not unsightly wire considerable chaff, causing it to vary grain mixture for feeding young pigs. not lead to infection of the young a satisfactory and not unsightly wire considerable chaff, causing it to vary grain mixture for feeding young pigs. not lead to infection of the young a satisfactory and not unsightly wire considerable chaff, causing it to vary grain mixture for feeding young pigs. not lead to infection of the young a satisfactory and not unsightly wire in weight from twelve to thirty pounds A little tankage, say one pound of tankwheat plants. It is a perfectly safe screen. If the netting is cut two or
three inches larger than the opening,
per bushel. Good bluegrass seed should age to ten pounds of the grain mixture, practice and one which has been practhe edge may be rolled so as to make a

MOLINE

The Universal Tractor

3-2 Plow Capacity



The Moline is unique in the tractor field—made so by our patent protection. It, is the correct farm power unit, doing all belt and field work, including cultivation, with one man.

Engineering and manufacturing development of the Moline Tractor and Moline Tractor Plows enable us to announce a 3-2 Plow for use with the Moline Tractor.

- 3 plows for ordinary conditions which prevail in most sections of the country.
- 2 plows for extreme conditions and unfavorable seasons.

An average saving of 4.7 horses per farm, and a total average saving of \$1,408.16 per year, is reported by yearly Moline tractor performance records received from owners to date. We will be glad to give anyone interested the opportunity to personally inspect these records.

If desired you can use the "drag behind" or horse drawn implements you now have with the Moline Tractor the same as with other types of tractors.

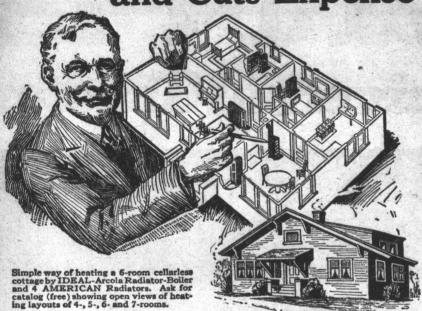
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This Heat Beats Winter and Cuts Expense



Modernize the old home and enjoy life in comfort. This small house heating outfit is built on the same principle as the big plants for residences. The IDEAL-Arcola is inexpensive, safe, easy to run, clean, economical with fuel and will last and heat your home for generations. It will heat all rooms evenly no matter how hard the blizzard blows—never wears out or needs repairs.

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with men	TEL MI	HE AL	11.1119	IN REAL PROPERTY.	es to :	·uit i	OUL	-	climatic co	4140
	No.	1-B	Size	IDEAL	-Arcola	with	100	eq. ft.	of Radiation	179
For	-	2-B	**	-		- 04	200	- 00		213
Soft		3-B	60			- 00	250	- 40		251
Coal		Z.R	. 66	- 44		44	300		•	290
. 1	No.	1-A	Size	IDEAL	Arcol	with	135	og. ft.	of Radiation	\$163
For		2-A	- 00	***	**		200			208
Hard]	3-A		46			265			251
Carl		ALA			- 60		330			299
Com	-	- 4	. 00	.00		- 00	400	46		349

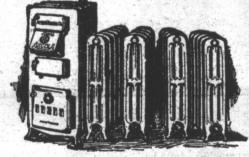
Prices include Expansion Tank and Drain Valve. Prices do not include labor, pipe and fittings used in installation and which are supplied by the local dealer at extra charge. Radiation is of regular 38-in. height 3-column AMERICAN Peccless, is sizes as needed to suit your rooms. Outfits shipped complete f.o. b. our nearest warehouse, at Boston, Providence, Worcester, Springfield (Mass.), Albany, New York, Philadelphia, Harrisburg, Pittsburgh, Baltimore, Washington, Richmond, Buffalo, Cincinnati. Indianapolis, Birmingham, Detroit, Chicago, Milwaukee, Minneapolis, St. Paul, Des Moines, or St. Louis.

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 fire risk.

Buy now at present attractive prices for outfits complete!

IDEAL-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 into 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.



The outfit consists of an IDEAL-Arcola Radiator-Boiler and 4, 5, or 6 AMERICAN Radiators and Special Expansion Tank—everything except labor, pipe and fittings, which any local dealer will supply. See prices below for various sizes of outfits.

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

Mo exclusive AMERICAN RADIATOR COMPANY Department F-3



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NEWTON'S FOR HORSES, CATTLE, HOGS HEAVES, COUGHS, COLDS, DISTEMPER, INDICESTION Cures Heaves by correcting the cause—Indigestion. Preven Colle, Staggers, etc. Best Cor

cures Heaves by correcting the cause—Indigestion. Prevents Coile, Staggers, etc. Best Conditioner and Worm Expelier. Three I arge cans guaranteed to cure Heaves or money refunded. and \$1.30 per can (includes War Tax). At dealers or Largest packages. Does is small. Cheapest to use, THE NEWTON REMEDY CONTROL OF THE NEWTON REMEDY.

For Sale Bred White Rabbits, \$3 per pair, will ship anywhere. Address GILDA LEICHSENRING, Marcellus, Case Co., Mich.

Pedigreed Red Book Seed for sale one ba.
The JENNINGS FARMS, Bailey, Mich.

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Gives a soft, brilliant, glowing light; restful to the eyes; an ideal illumination.

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A hundred times brighter than kerosene lamps. Burns 96 per cent. osene lamps. Burns yo per centair and 4 per cent. common assoline. Clean-odorless-economical.

ABSOLUTELY SAFE
Can be carried anywhere-perfectly safe, even if tipped over.

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New patented twia mantle burner lights with one match easily and quickly.

Greatest improvement of the age.

SEND NO Simply write for Catalog,
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THE AKRON LAMP CO.



Fruit Growers Enjoy Tour

Michigan Horticulturists Visit Some of the Fine Orchards of Our Northwestern Counties.

cluded portions of Manistee, Benzie, of that name. Leelanau and Grand Traverse counties. Entering Benzie county, the next or-The party left Manistee in automobiles chard visited was that of John Howon Wednesday morning, August 18. Led ard. He has forty acres of apples conby Carl H. Knopf, county agricultural sisting mainly of Gano, Wealthy, Spy, agent of Manistee county, the first halt Shiawassee Beauty, Winter Banana, was made at the Nellie Whitney Fruit Wagner, Grimes Golden, and Hubbards-Farm, five miles northeast of Manistee. ton. Twenty acres is twenty-five years This orchard consists of fifty-one acres of age, and sixteen acres has been of peaches on the right hand side of growing for eighteen years. Mr. Howthe road, opposite of which is one hun- ard has a unique and economical water dred and fifty-two acres of peaches, supply for spraying purposes. A large pears, apples and cherries. Below the cement reservoir was constructed in latter is a block of one hundred and the center of his orchard, and this is seventy-four acres of apples contain- kept filled with water piped from a ing 10,837 trees six and seven years nearby spring. old. This orchard is receiving excellent care under the management of J. next on the route. This consists large-E. Merritt. The varieties are: Wag- ly of cherries, the sweet varieties prener, Grimes Golden, Spy, Jonathan and dominating and from which a good McIntosh. Three tractors and one team crop was harvested this year. Preparare required in the operation of this ations are being made to plant an addifarm.

Lake View Orchard, owned by the dition to the fruit crops.

trees, using only a nine-foot ladder. His

HE Michigan State Horticultural leading varieties are: Gano, Jonathan, Society followed its usual cus- Grimes Golden, Northwestern Greentom of recent years by making ing and Wolf River. This fine orchard an excursion to the orchards of some overlooks Bear Lake, a beautiful inof its members. The trip this year in- land body of water adjoining the town

The famous Paul Rose Orchard was tional orchard of apples on this farm.

The party then proceeded to Crys-Buckley & Douglas Lumber Company, talia, a natural wooded park at the and managed by F. A. Mitchell, was west end of beautiful Crystal Lake, next on the route. This farm consists where luncheon was served by the Conof six hundred and ten acres of improv- gregational Assembly. After a brief ed land, of which five hundred acres rest following the luncheon, the tour is planted to fruit trees. The orchard was resuned. The route was along consists of approximately 40,000 trees, the north shore of Crystal Lake to the of which forty per cent are apples, Thrushwood Orchards, owned and optwenty-five per cent peaches, twenty erated by A. J. Rogers, Jr. Mr. Rogers per cent cherries, ten per cent apples is a very progressive horticulturist, with peach fillers, and five per cent president of the Michigan State Cherry plums and pears. Over 100,000 pounds Growers' Association, and secretaryof cherries have been harvested, and treasurer of the National Cherry Grow-2,500 to 3,000 bushels of peaches and ers' Association, organized this year. 2,500 barrels of apples are expected He has a very pleasant home, and an this year. Much of this orchard has excellent, well-kept orchard. Many of not reached the bearing age. One hun- the growers present expressed the opindred and five cherry pickers were re- ion that the location of this orchard, quired to harvest the crop this year, with respect to air drainage, was ideal. twenty-three men are regularly employ. After having "their pictures took" on ed on the farm, and thirteen horses the lawn, the party inspected the orare used in operating it. It is produc- chard. Nitrate of soda was used this ing a quantity of hay and grain in ad- year, and its effects were very noticeable in the excellent color of the fol-Arlie L. Hopkins' one hundred and tage and fine growth made. There is twenty-acre bearing orchard at Bear about one hundred acres in this or-Lake was next visited. This well-kept chard, nearly equally divided between orchard consists of 3,000 apples, 2,500 apples, peaches and cherries. The peach, five hundred cherry, and four party was treated to some fine samhundred and fifty plum trees. Mr. ples of ripe peaches. After eating Hopkins, aside from being an exten- their fill of these, all "cranked up" and sive fruit grower, operates several hun-resumed the tour, passing near the dred acres of farm land, and is a lead- town of Beulah at the east end of Crysing member in the state legislature. tal Lake, through Honor, and on north-He harvested 7,000 barrels of apples ward to Indian Hill Orchards. Owing last year. He is a believer in thorough to the lateness of the hour only a brief tilling and pruning, as well as the oth- stop was made here. These orchards er modern orchard practices, and he are comparatively young and made up explained to the visitors his system of mainly of cherries and apples, giving low heading of trees by which he was promise of good crops within the next able to pick as many as ten barrels of few years. The trips scheduled to the apples last year from many single Diehl and McClary orchards had to be (Continued on page 268).



Experimental Packing Plant Erected by the State of West Virginia.



Clean-Uniform-Powerful

NATIONAL LIGHT OIL

For Tractors, Lamps, Stoves

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For Differentials, Gears, Transmissions

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painstaking care that there is never any danger of impurities, sediments or imperfectly refined products to

All EN-AR-CO motor oils are tested to stand up under the terrific heat generated in the engine without carbonizing cylinders or clogging

Many engine troubles are caused by insufficient lubrication and the old bible saying might be paraphrased to "spare the oil and spoil the motor." Use plenty of EN-AR-CO Motor Oil

EN-AR-CO AUTO GAME FREE

Here is a fascinating game in which autos compete in a cross-country race. Two, three or four can play. Only one game to a family.

Get this game for the children

Grown folks too will like it. Sent free only auto or tractor owners, to acquaint you with the merits of EN-AR-CO MOTOR OIL. USE COUPON.

USE THIS COUPON

THE NATIONAL REFINING COMPANY, 2139 Rose Building, Cleveland, Ohio.

Enclosed find 2-cent stamp to partially cover postage and packing. Please send EN-AR-CO game free. I have lever received an EN-AR-CO game.

Name.... Street or R. F. D.

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County..... State.... State...

(Make of automobile or tractor)

and am at present using.... motor oil. I will be in the market for more oil again about.....(give date). Please quote me price on.....gallons EN-AR-CO motor oil.



See How Essex **Proved Economy**

A Nation-Wide Demonstration No Motorist Can Overlook

Connecticut-With 12 cars over Mohawk Trail and Hoosick Mountains and 12 over a coast route— many owner driven—216 miles average distance per car, 18.7 miles per gallon were shown. One car with 35,000 miles service averaged 21.2 miles per gallon.

Nebraska—A Hastings, Neb. wo-man drove her Essex from Lin-coln to Hastings, 109 miles, averaging 28 miles per gallon.

California-Four women drove from Los Angeles to San Francis-co and return averaging 22.3 miles per gallon. A San Francisco Essex made the round trip, 846 miles, in

33 hours with 23 miles per gallon. Hood and radiator sealed.

San Antonio, Tex.—In a 166 mile run to Austin and return, Essex averaged 25.5 miles per gallon.

Sacramento, Calif.—Defeated 19 entries and took Tallac Cup for highest gasoline, oil and water mileage in Sacramento dealers reliability run.

Baltimore. Md.—Essex sedan, on original tires with 15,000 miles service, traveled 221 miles over Maryland hills, averaging 23 miles per gallon.

Florida-On a measured gallon an Essex covered 23 miles and without change or adjustment of any kind showed speed of 68 miles per hour.

49 Cars Average 18.9 miles Per Gallon—Records cover every kind of test at a speed of from 5 to 72 miles per hour.

Los Angeles, Cahif.—To San Francisco over 828 mile route of steep grades and frequently far from water supplies Essex which had previously gone 28,000 miles and under U. S. Marine observation made trip scaled in high grant with made trip sealed in high gear with sealed hood and sealed radiator. Average 22.8 miles per gal.

Also Broke World's Dirt Track Record—1261 Miles

Made at Dallas, Texas, by a car That Had Already Gone 12,000 Miles

From the mere standpoint of gasoline mileage, Essex in its nation-wide tests showed a performance worthy of cars which possess that advantage as their principal quality.

Records were kept on 49 cars. They averaged 18.9 miles to the gallon.

But bear in mind this was not done by taking advantage of every device possible to increase gasoline mileage. Under conditions of that sort, Essex showed as high as 37 miles to the gallon. However, men don't drive that way. How obviously unfair it would be, therefore, to offer such carefully economized fuel mileage tests as typical of all Essex cars.

In the Essex tests, conditions and performances adverse to gasoline economy obtained.

These cars were being driven at speeds from 5 to 72 miles per hour. They were reeling

off thousands of miles over all sorts of roads in inter-city runs that set new time marks. They were making new hill-climb, acceleration and endurance records.

Many were owner cars — owner driven. Women piloted some.

Some of the Essex cars used had already traveled upwards of 30,000 to 35,000 miles.

also consider its endurance and reliability.

consideration?

So you must not view Essex economy merely by its gasoline consumption. You must

If there were nothing more striking about the Essex than its gasoline mileage, it would be a worthy subject of our advertising. But important and impressive as that fact is, does not its other qualities take first rank in your

Essex Motors, Detroit, U. S. A.



WATCH the ESSEX

Best for Every

Farm Use

For Ignition

High Amperage



Farms and Farm Lands For Sale

Woman Owner Must Sell, Includes Cows, Crops, Machinery, 5 acres potatoes, 10 acres buckwheat, 4 acres oats, lot hay, 8 cows, poultry, harness, wagons, valuable machinery, gasoline engine, all tools, go quick buyer; 75 acres machine-worked fields, excellent hay, potato and grain land; 15-cow creek wateredpasture, valuable wood, apple orchards; 125 sugar maples, outfit, 2-story, 12-room house, bath room, maple shade, furnace heat; big barn, silo, poultry, houses; quick-action price \$350 casy terms. Details page 30 Strout's Big Illustrated Catalog Farm Bargains 33 States, Copy free.

STROUT FARM AGENOY.

Bit BO Ford Bldg., Detroit, Mich.

120 Acre Farm For Sale. Heavy clay soil, some loam. 20 acres timber, Good house and fair outbuildings. Well, cistern. Small spring brook furnishes stock water. Orchard, Creamery adjoining property Town also adjoins property, having bank, churches, Normal and high school. Located in northeastern Michigan. Can give immediate possession. Price \$4000.09, half cash, balance easy payments. Bargain if taken at once. Address Box C 104 care of Michigan Farmer, Detroit, Mich.

80 A. Farm. An excellent home. This is a hargain, 70 A. well improved, 10 A. timber and pasture, over 600 rods woven wire fence, nearly all seed of clover and alfalfa, 2 barns, granary, henhouse, 7 room dwelling, 2 good wells of water, A good general crop farm. Only \$5000 if 801d at once.

P. R. SPRAGUE, Owner, Sears, Mich.

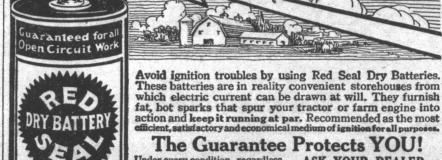
80 A. FARM

All improved. Borders city, I mile to high school
and college on state road I am prepared to give
you the biggest bargain ever. Address Box A 814
care of Michigan Farmer, Detroit, Mich.

FOR SALE 50 acres. Good buildings, well, water in house and barn. Also stream through pasture. Will sell part or all. Price 30 per acre. For further information write

Wm. VANDEPOL, R. No. 4, Marion, Mich

Additional Farm Ads. on Page 291



Under every condition, regardless of weather, and no matter how rough the ground the gro ASK YOUR DEALER Under our plan, every dealer's supply of "Red Seals" is always fresh. No chance for you to get run down stock. Ask for them by name.

When you buy Red Seal Dry Batteries, ask your dealer for FREE book, "How to Run the Gas Engine" our famous handbook for engine owners.

MANHATTAN ELECTRICAL SUPPLY CO., Inc. New York — Chicago — St. Louis — San Francisco Factories: at Jersey City; St. Louis; Ravenna, Ohio

Cheap; nourishing, palatable is mush and milk—good any time; as a Sunday night lunch it can't be beat.

VITAMINES ESSENTIAL TO GROWTH.

BUTTERFAT is a vital food. It is such because it contains the fat soluble vitamine so necessary to the growth of children and animals. The substitution of cheaper vegetable fats which lack these vitamines for butterfat offers a temptation that is frought with real danger to the rising generation. On this very important subject a bulletin issued by the Wisconsin Experiment Station has the following to

"Vitamines are as yet unidentified chemical substances in foods and are absolutely necessary for growth and reproduction. Without them no growth will take place. If we take such a mixture of foodstuffs which do not allow an animal to grow and stir into it a small quantity of egg yolk, say for a pound of the ration, an ounce of egg yolk, growth can be induced. The same result would be obtained if we had put in an ounce of evaporated milk instead of the egg yolk. Suppose next that we take all the fat out of this satisfactory ration by extracting it with something that dissolves fats. It will be found that though the ration will be able to maintain young rats without any increase in weight for about a month, it will no longer be able to induce growth. Only on restoring the extracted fats to the ration will growth be made.

"A similar result could have been obtained by adding butterfat or fats obtained from certain animal organs, but other fats such as lard, almond oil and cottonseed oil would not have brought about the same result.

"These facts might well cause us to stop and think. Because of the fact that some fats naturally contain substances necessary for growth, while other fats do not contain such substances, there has arisen the necessity of speaking of the presence or absence of a fat soluble vitamine.

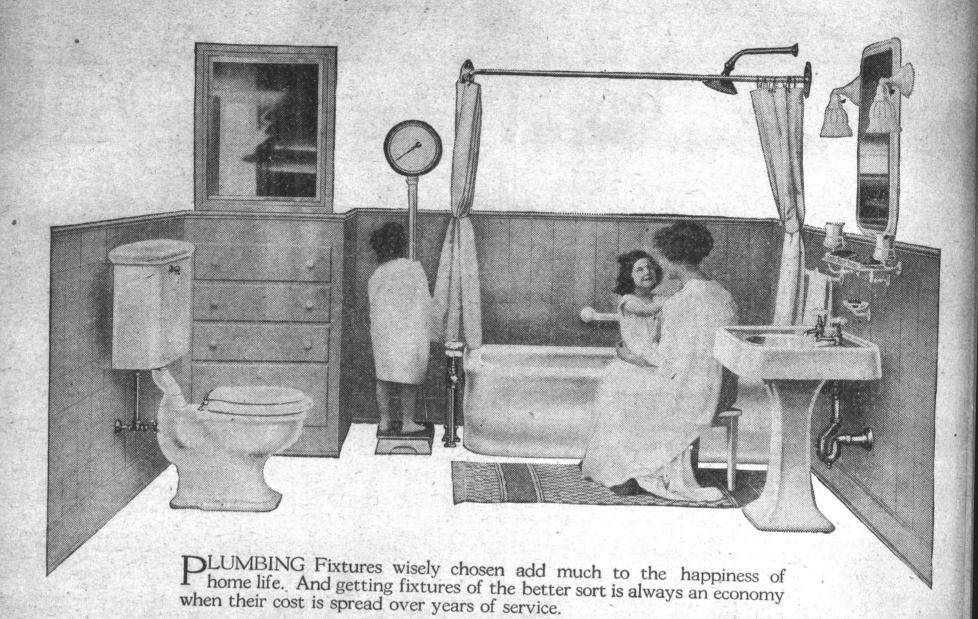
"There is a tendency to use plant oils as substitutes for butterfat, even claiming for them a value equal to that of butterfat. No plant oils so far investigated, and these include cottonseed oil, almond oil, peanut oil, cocoanut oil, and sunflower seed oil, contain the fat soluble vitamine in appreciable quantities. It is false to claim these as substitutes for butterfat.

"We do not condemn them, for they are valuable food products as sources of energy and their use for that purpose should be encouraged but they should sell under their own banner and be used in nutrition for exactly what they are worth. To remove the butterfat from whole milk and replace it with cocoanut oil and then claim that the product is equal to whole milk for the nutrition of growing children is not

INDIANA FARMERS LOSE \$5,750,000 IN YEAR.

HESSIAN fly damaged the Indiana wheat crop to the extent of \$5,750,-000 during the past year, according to the estimates based on reports from throughout the state to the soils and crops department of Purdue University. The fly was so bad in some sections that the wheat was not worth cutting and in many places it was plowed under this spring and the ground planted to corn or oats.

This loss can be prevented the coming year by late sowing of wheat, or seeding after the "fly-free" dates, according to Prof. A. T. Wiancko, head of the soils and crops department of Purdue. Purdue and government entomologists have established by several years of experimental work dates for various parts of the state for seeding so that the wheat will not be damaged by the fly.



Give your home a modern bathroom. Why wait until the family grows old? Passing years should be no less pleasant than the years still to come, and it is better to install the best fixtures the first time and enjoy the advantages of their service.

Get in touch with a Contracting Plumber in your vicinity and let him help you solve your problem. Get the benefit of his years of training and experience.

Write for our color-printed catalogue "Standard" Plumbing Fixtures for the Farm." It illustrates all types of fixtures.

Standard Sanitary Mfg. Co., Pittsburgh

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"Standard" Showrooms and Branch Houses

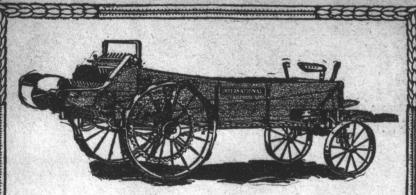
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Service at "Standard" Branches In the cities marked (*) are carried complete lines of Plumbing and Heating Supplies; Farm Lighting and Water Supply Systems. Write or call on nearest branch.



The Easy-Pull Spreader

HE outstanding feature of the International Manure Spreader, among a number of exceptional features, is its light draft.

Equipped with roller bearings at seven points, it runs with almost the smoothness of a sewing machine.

Two rapidly revolving steel beaters tearing tough chunks of manure into bits; a heavy load carried on the main axle, to be moved steadily back to the beaters - these things ordinarily would tend to create heavy draft. But roller bearings in the new International Spreader smooth out the hard work and convert what otherwise would be "heavy draft" into a horse-saving, spreader-saving "Easy-Pull".



Every Grain is Separate in



COLONIAL

SPECIAL FARMER'S

No lumps or cakes in this pure, full strength salt, and it will never hard-en, if given reasonable care. Perfect for every farm purpose and for the farm home. Packed in convenient, non-leaking 70 pound bags. Look for the name on every bag.

Manufactured only by THE COLONIAL SALT CO. AKRON, OHIO

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FARM WAGONS any running gear.

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HE COLONIAL SALTCO

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Mention The Michigan Farmer When Writing Adveitsers



Fruit Growers Enjoy Tour

the village of Empire. Mr. Wilce be- er orchard of five thousand trees. ing away from home, Superintendent With a hearty handshake, the party D. P. Roach cordially greeted the visit- bid Mr. and Mrs. Lasch adieu and protions. This company has one hundred through Traverse City, and from there acres was pointed out, from which twenty miles in length, and from one \$3,300 was received this year. Seven- to four miles in width. Grand Travty-five acres of the apple orchard is in erse Bay is in sight of the road either full bearing. The varieties grown are: on one or both sides of the peninsula Wagner, Grimes Golden, Baldwin and throughout the entire length. The pe-Spy. The owners expect sixty-five per ninsula is the original home of the cent of a crop this year. The first northern Michigan cherry industry, day's run ended at this point.

dations for eighty-five people on about throughout its entire length. Glen Arbor and Glen Haven hotels. the dusting method this year. lakes were passed on the route. The the deep-colored healthy foliage. made to Snyder & Hawley's orchard spot. The party then returned, some which had suffered a severe attack of going to the Great Lakes Way Camp scab, which is quite prevalent in that for supper and to spend the night, the part of the state this year, notwith-remainder returning to Traverse City. standing the vigilance and efforts of This was the conclusion of one of the the growers. This orchard was dusted most profitable, interesting and scenic instead of sprayed this year, but the tours undertaken by the society, and difficulty cannot be safely attributed to all expressed themselves as greatly this method, which has proven a favor- pleased and benefitted by the ite with many of the best growers in the state. It is, however, further proof that no method is infallible under all conditions.

him to his fine home and orchard. Din-ner was served by ladies from one of the local church societies on Mr. commission. There is no agreement on Lasch's lawn and, notwithstanding the enormous appetites acquired from the long forenoon drive, the supply of good things to eat far exceeded the demand.

Commission. There is no agreement on the commission that the commission is not commission. There is no agreement on the commission that the commission is not commission. There is no agreement on the commission that the commission is not commission. There is no agreement on the commission that the commission is not commission that the commission that the commission is not commission that the commission is not commission that the commission and so well prepared and served that, from which a contract may arise by at the happy suggestion of President performance before revocation.-R.

(Continued from page 264). Nicol, all insisted on paying one dollar omitted for lack of time. The latter per plate instead of the seventy-five orchard, owned and managed by Mr. cents charged by the ladies. Mr. Lasch O. R. McClary, a progressive young or- is a thorough business man and has chardist, is well located on high ground demonstrated his ability as a successnear Empire, and consists of one hun- ful fruit grower through the large and dred and thirty acres of apples that fine orchards he has developed on the are just coming into bearing. The west shore of Traverse Bay. He has Northern Spy predominates in this or- recently planted eight hundred Hyslop crab apples, and an orchard of Dam-A brief call was made at the pack- son plums. He is one of the large ing house of the Wilce Farm & Or- cherry growers of the Grand Traverse chard Company, just at the edge of region, and has recently planted anoth-

ors and answered their numerous ques- ceeded along the shore route to and and twenty-five acres of orchard, all of out on the Grand Traverse Peninsula, which is apples except about ten acres. one of the most scenic and interesting A ten-year-old cherry orchard of seven spots in America. The peninsula is and is climatically adapted to growing Much credit is due Mr. McClary for all of the tree fruits, as evidenced by being able to arrange hotel accommo- the fine orchards dotting the hillsides

an hour's notice when less than fifty A brief stop was made at Titus were expected. Mr. Wilce had his ho- Brothers' fine orchard of cherries and tel building, which has not been in op- other fruits. They have thirty acres eration for several years, reopened for of cherries, two-thirds of which are in the occasion. Mr. McClary was able to bearing, and have made some extenarrange for the overflow at Glen Lake, sive and satisfactory experiments with

Supper and breakfast were taken at a The next orchard visited was that hotel on the shore of Glen Lake, about of D. R. Murray. He has fifty acres of four miles northeast of Empire. The orchard consisting of apples and chersecond day's start was made from this ries. With the exception of five hunpoint, under the leadership of Dr. J. P. dred young trees his orchard is all in Houston, acting agricultural agent for bearing, and much of it is of mature Grand Traverse county. The trail led age. Experiments have been conductalong the scenic west side of Leelanau ed this summer with the use of nitrate county where spiendid views of Lake of soda, the application varying from Michigan could be had at frequent in- five pounds per tree in the old apple tervals, and where the Manitou Islands orchard to three pounds per tree in were plainly in view. From one ele- other parts of the orchard. A very vated point, the Fox Islands could be marked beneficial effect was noticeable discerned. Several beautiful inland in the remarkable growth made and

nearest approach to the North Pole Milton Gore's splendid young cherry was the Cherry Home Orchard, a few orchard shows the results of careful miles northeast of Northport and near attention and brought forth much favthe extreme north end of Leelanau orable comment during the stop made county. This orchard is owned by the to look over his large orchards. As it Northport Canning Company, and con- was becoming late, the only other orsists of one hundred and forty acres of chard visited was that of E. O. Ladd. Montmorency cherries, the largest sin- Mr. Ladd is too well known to need gle block of this variety in the state. introduction or comment. He is a The last picking was being completed pioneer and leader in fruit growing, on this day, and the first glimpse of and has some very choice blocks of real cherry pickers was obtained here. cherry and apple trees, a fine and pleas-The pickers were young women from antly located home, and a genial dissouthern Michigan cities quartered in position. The orchard of Mr. Guy houses built for the purpose, and were Tompkins is in the same locality and under the supervision of competent was observed in passing, as was the chaperons. A few members of the tour-splendid apple orchard of Mr. James ing party then visited the canning plant Lardie and several others. A quick while the others proceeded on the re-run was made to Old Mission for a turn trip. At Omena, a side trip was brief view of that beautiful and historic

UNILATERAL CONTRACT.

At present there is a land company in this section listing farms. They take The party was met at Sutton's Bay an option for one year and bind the by Mr. A. A. Lasch and conducted by option by a contract which states that

The dinner was so much appreciated contract, but it may be a good offer,

There is a guaranteed standard of perfection in Finck's Overalls—a standard of Wear, Fit, Comfort, Convenience that you will find in no other garment.

Finck's Overalls fit comfortably even after washing because they are made extra size and correctly designed.

Finck's Overalls wear because there is little or no strain. They will not bind. They stand all strains no matter what position the wearer works in.

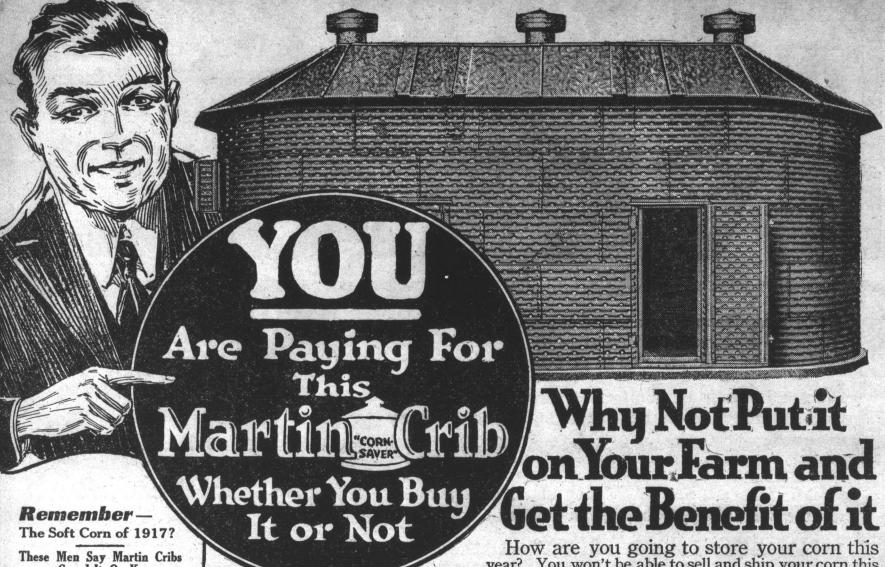
Finck's last, true to their slogan, "wear like a pig's nose," because only the very best quality of denims is used. This plus careful construction in every detail means the longest service and lower cost in the long run.

> Let your dealer fit you to Finck's. If he cannot supply you, write to us.



SK YOUR DEALER





Cured It O. K.

I had corn in 10 different cribs of the 1917 crop and the corn I had in your Martin Crib was the only No. 2 corn of that crop delivered to market in my whole county. PETER J. LUX, Shelbyville, Ind.

I experimented with the Martin Crib with corn that was green on the stalk and that corn is as dry and good as any mature corn right now. W. I. A. LaRUE, Henderson, Ky.

I have put pretty green corn in my Martin Crib and it always came out in the best condition. GEO. L. MULZER, Galena, Ohio

Last year (1917) was an exceptionally bad year for corn. Our corn in the Martin Crib kept good while the corn in the wood good while the co...
good while the co...
cribs spoilt much.
L. W. ROSENCRANS,
Westport, Ind

year? You won't be able to sell and ship your corn this season when you want to. The railroad tie-up and

shortage of freight cars make it absolutely necessary for you to store your corn on your own farm and hold it until the railroads can handle it.

If you store it in the old fashioned wood cribs or makeshift rail pens, you are going to lose and waste enough to almost pay for one of these modern, indestructible steel cribs. The old outof-date, lax methods of storing your valuable corn are causing you to lose at least 10% of your crop. Think of it! 10 bushels out of every 100 lost.

This loss did not amount to so much 30 or 40 years ago when corn sold for around 20c a bushel, but nowadays when the price is ten times higher, how long can you continue to spend months and months of hard work in sowing, cultivating, and harvesting the crop—and then dump it into some old unsafe crib or bin, where the rats, mice, fire, weather and thieves spoil and steal 10 per cent of it right out from under your nose.

Stop Your Corn Losses With

Ratproof—Fireproof—Weatherproof

That's why we say, "you are Paying for this Martin Crib whether you Buy it or Not." Be cause a Martin Crib on your farm will stop all of the needless waste—stop this loss and pay for itself. Why not put one on your farm this year? It will save every bushel of your corn crop-bring you higher prices for it and make more money for you.

These modern steel structures are made of heavy corrugated galvanized steel. They are far cheaper than wood cribs or bins in the long run—easier to erect—never need repairs and will last a lifetime. They are the only metal crib that will successfulty store either corn or small grains such as wheat, oats or rye.

Martin Steel Cribs are built in circular style and oblong style in all sizes to fit the needs of any farm from 100 to 10,000 bushels capacity.

WRITE for This Big FREE Book

We want to send you a copy of our big new Corn Crib Book that describes Martin Steel Cribs from A to Z—It tells how Martin Cribs will save 10% to 20% of your crops that you are now losing. It shows how their patented ventilating system keeps out every drop of snow or rain yet cures and keeps your corn and grain clean, sound and sanitary. It describes how Martin Cribs starve out the rats and mice and drive them off your place how they banish the danger of fire destroying your crops.

This valuable book will be sent to you free and postpaid. It takes only a postage stamp to get it. Fill out the coupon and mail it at once.

MARTIN STEEL PRODUCTS CO. 2511 Adams Street Mansfield, Ohio



FREE BOOK COUPON MARTIN STEEL PRODUCTS CO. 2511 Adams St., Mansfield, Ohio

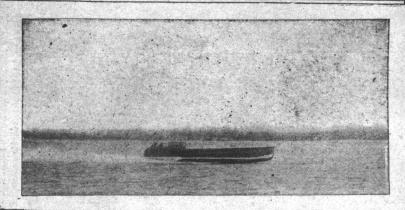
Gentlemen: Please send me your big FREE book on Martin Steel "Corn Saver" Cribs and Bins. This does not obligate me in any way,

Name..... Town.....

I am interested in a corn crib holding about......bushels. lam interested in a grain bin holding about.....bushels.

WORLD EVENTS IN PICTURES





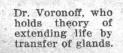
This boat, owned in Detroit, wins the international motor boat trophy for America by going thirty miles in 37 min. 51-5 sec.

Group of American Boy Scouts examining some trained llamas in the London Zoo, where the animals draw small carts along the roads. These Boy Scouts are visiting scenes abroad and meeting other scouts from all the allied nations in friendly competitive drills and athletics.



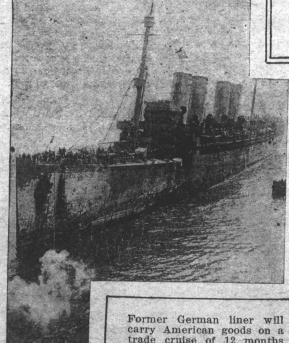
The son of General Wrangel, whom France has recognized as head of the defacto government of Russia.

Girl with prettiest feet in New York is made unusually happy by receiving a prize of \$500.

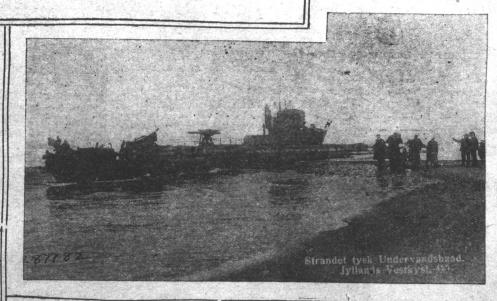




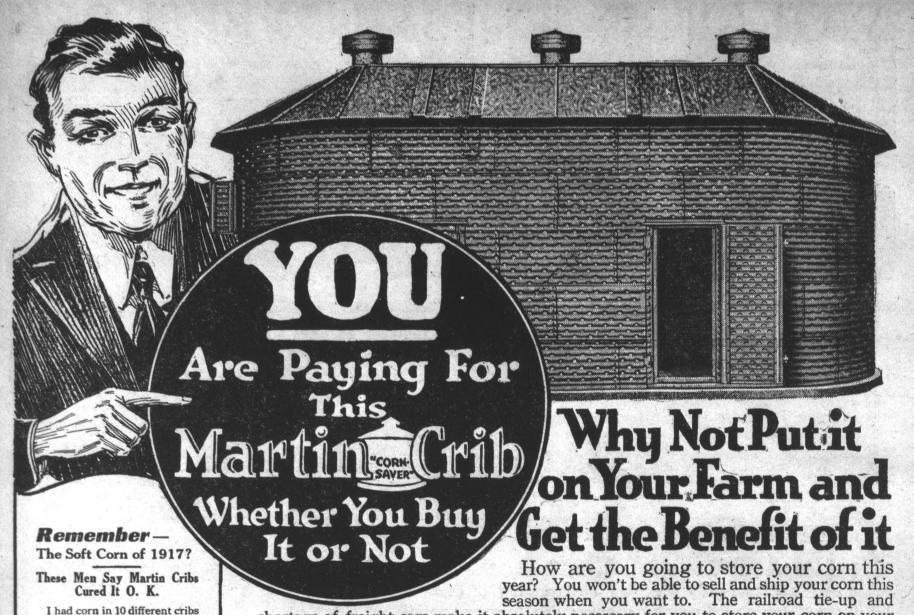
Miss Morosini, who has several marksmanship med-als to her credit, is out for the national champion-ship rifle meet at Camp Perry, Ohio.



Former German liner will carry American goods on a trade cruise of 12 months to every port of importance on the globe.



Here on a wild stretch of beach on the Danish coast the waves are rapidly pounding into the sand the German U-boat which sank the Lusitania.



Cured It O. K. I had corn in 10 different cribs of the 1917 crop and the corn I had in your Martin Crib was the shortage of freight cars make it absolutely necessary for you to store your corn on your

own farm and hold it until the railroads can handle it. only No. 2 corn of that crop de-livered to market in my whole If you store it in the old fashioned wood cribs or PETER J. LUX, Shelbyville, Ind. county. makeshift rail pens, you are going to lose and waste enough to almost pay for one of these modern, indestructible steel cribs. The old out-I experimented with the Martin Crib with corn that was green on of-date, lax methods of storing your valuable corn the stalk and that corn is as dry and good as any mature corn right now. W. I. A. LaRUE,

This loss did not amount to so much 30 or 40 years ago when corn sold for around 20c a bushel, but nowadays when the price is ten times higher, how long can you continue to spend months and months of hard work in sowing, cultivating, and harvesting the crop— and then dump it into some old unsafe crib or bin, where the rats, mice, fire, weather and thieves spoil and steal 10 per cent of it right out from under your nose.

are causing you to lose at least 10% of your crop. Think of it! 10 bushels out of every 100 lost. Stop Your Corn Losses With

Ratproof—Fireproof—Weatherproof

That's why we say, "you are Paying for this Martin Crib whether you Buy it or Not." Be cause a Martin Crib on your farm will stop all of the needless waste—stop this loss and pay for itself. Why not put one on your farm this year? It will save every bushel of your corn crop—bring you higher prices for it and make more money for you.

These modern steel structures are made of heavy corrugated galvanized steel. They are far cheaper than wood cribs or bins in the long run—easier to erect—never need repairs and will last a lifetime. They are the only metal crib that will successfulty store either corn or small grains such as wheat, oats or rye.

Martin Steel Cribs are built in circular style and oblong style in all sizes to fit the needs of any farm from 100 to 10,000 bushels capacity.

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We want to send you a copy of our big new Corn Crib Book that describes Martin Steel Cribs from A to Z—It tells how Martin Cribs will save 10% to 20% of your crops that you are now losing. It shows how their patented ventilating system keeps out every drop of snow or rain yet cures and keeps your corn and grain clean, sound and sanitary. It describes how Martin Cribs starve out the rats and mice and drive them off your place -how they banish the danger of fire destroying your crops.

This valuable book will be sent to you free and postpaid. It takes only a postage stamp to get it. Fill out the coupon and mail it at once.

MARTIN STEEL PRODUCTS CO.

2511 Adams Street

Mansfield, Ohio



W. I. A. LaRUE, Henderson, Ky.

I have put pretty green corn in my Martin Crib and it always

came out in the best condition. GEO. L. MULZER, Galena, Ohio Last year (1917) was an exceptionally bad year for corn. Our corn in the Martin Crib kept

good while the corn in the wood

FREE BOOK COUPON

MARTIN STEEL PRODUCTS CO. 2511 Adams St., Mansfield, Ohio

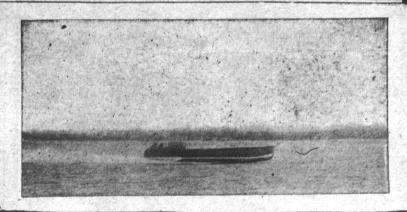
Gentlemen: Please send me your big FREE book on Martin Steel "Corn Saver" Cribs and Bins. This does not obligate me in any way.

Name..... Town.....

am interested in a corn crib holding aboutbushels. am interested in a grain bin holding aboutbushels.

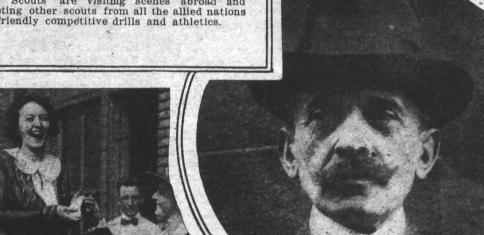
WORLD EVENTS IN PICTURES





This boat, owned in Detroit, wins the international motor boat trophy for America by going thirty miles in $37\,\mathrm{min.}\ 5\,1\text{-}5$ sec.

Group of American Boy Scouts examining some trained llamas in the London Zoo, where the animals draw small carts along the roads. These Boy Scouts are visiting scenes abroad and meeting other scouts from all the allied nations in friendly competitive drills and athletics.



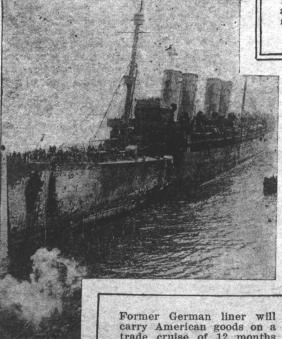
The son of General Wrangel, whom France has recognized as head of the defacto government of Russia.

Girl with prettiest feet in New York is made unusually happy by receiving a prize of \$500.

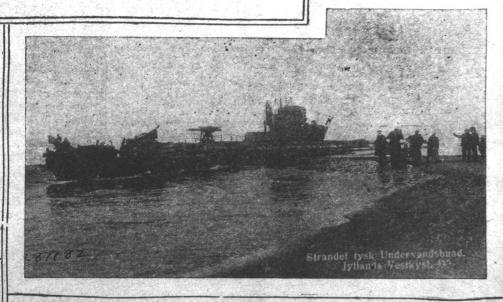
Dr. Voronoff, who holds theory of extending life by transfer of glands.



Miss Morosini, who has several marksmanship med-als to her credit, is out for the national champion-ship rifle meet at Camp Perry, Ohio.

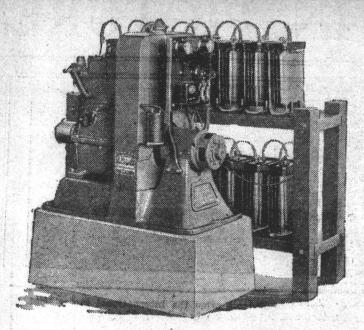


carry American goods on a trade cruise of 12 months to every port of importance on the globe.



Here on a wild stretch of beach on the Danish coast the waves are rapidly pounding into the sand the German U-boat which sank the Lusitania.

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A Litscher Lite plant gives power and light, and comes to stay.

There are two big items shead of the farmer. He Must Have farm help and he Should Have modern conveniences. A Litscher Lite plant will give both—at the same time. It will supply electric current for incandescent lights and belt power for farm machinery by simply pressing a button.

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The Litscher Lite plant operates on kerosene fuel, and needs only as much as is consumed in the old-fashioned lamps. It requires practically no attention to give perfect service. It occupies a small amount of floor space, and is quickly installed.

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38 CALIFORNIA ORANGE GROVES TO BE SOLD AT AUCTION!

Trip to California FREE to Purchasers

LOCATION:

337 acres of Navels and Valencias, located just 53 miles from Los Angeles, and 3 miles from Riverside reached by trolley. R. F. D. and deliveries by Riverside stores. Freight and Passenger Depots at groves.

SIZE:

38 groves of various sizes from 3½ to 21½ acres each, ne all Navels; some all Valencias; many have both varieties.

CROPS:

Navels from these groves have tested from 8.5 to 9.8 per cent sugar as early as November 15. Navels picked by January 1; Valencias by May 30, avoiding competition with Eastern deciduous fruits.

WATER:

Water furnished with each grove separately; in some of the groves from a 350 inch water company, with 2 nominal assessments annually, and in other groves from a turbine pump on the ground. Every grove has available ALL THE WATER YOU WANT AT ALL TIMES!

FERTILIZER:

Excellent Fertilization—\$20,000 worth applied to groves in last 6 months, by approved furrow method and heavy melilotus crop planted and plowed under in past winter, assuring prolific crops next season.

SOIL AND CLIMATE PRUIT:

Fine sandy loam soil, ideal for oranges, 100 feet above Santa Ana River. Lowlands to east where cold air drifts off, leaving groves free from frost damage. NO SMUDGE POTS HAVE EVER BEEN USED IN THIS TERRITORY. 60 per cent runs famous "SUNKIST" Brand commanding top market prices. Marketing thru Bloomington Fruit Assn., affiliated with Fruit Growers' Exchange. Fruit from one grove captured Sweepstakes Prize at San Bernardino, California, Orange Show, for most Perfect Orange.

SALE:

Sale begins Thursday, Oct. 14, 1920, AT PUBLIC AUCTION! Set your own price. These groves will be sold to close an estate. Liberal and convenient terms may be arranged. References: Heilman Commercial Trust & Savings Bank, or Union Bank and Trust Co., both of Los Angeles.

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service. But the close reading of Scrip- that the rule of his life. ture gives the lie to that. Preachers He was working for a soap firm. By usually consumes old age in reaping ketable product that brought large re-Canada thistles. Memory supports this turns, and is still bringing large reing satisfaction come from memories become a millionaire because he gives of the hours used in some form of away a certain portion of his income. service. And-

"It's not the thing you do, dear, It's the thing you leave undone, That gives you a bit of heartache At the setting of the sun."

A ND then there is education. Education to lead, in Some people are born to lead, in and thousands of them pass on into college. The educated man has better training than others. He has come in ing had more invested in him, more is required of him. The state has spent money on him. Father and mother have spent money and love and perhaps sacrifice on him. His education is so much capital. He is a trustee of God expects more, he expects more of himself. The individual who has prepared himself for life with college and university work and who regards this training as so much capital to be used list of boys who want to join. in the spirit of service, is one of the finest sights of our time. Such persons, whether men or women, save the race from mortal putrefaction. Such a man was the late W. W. Borden, millionaire. He was a graduate of two east- get a hired man and make money on ern universities, a splendid athlete and a farm. First you rent your farm to social favorite. All that money, abil- a rich city guy and hire out to him for ity, opportunity offer, were his. And wages to run the place. Then the rich he invested these in the foreign mis-sionary field, entering one of the most and it doesn't cost anything for his

if you will. It is the faculty of making end of the first year. Then you can and accumulating. It has been point- rent it to another rich city guy on the ed out that Christ taught more on the same plan. subject of money than any other. And income because it is God's portion, is room.

NE of the things that Christ em- worse than a murder trial, to many phasized was the fact that men Christian people. They will do everywill be called upon to give an thing but that. And for want of fidelaccount to God. The more a man has ity in this, the Christian program lags. of wealth, leisure, time, opportunity, Yet ever and again a man does use his ability, the more will be exacted from money as a trustee of God, and his exhim. He expressed this in many ways, ample is like a beaming light over a but always the same moral was arriv- dark sea. One day a lad of sixteen went ed at. As someone has condensed it, from the country to New York City, if "To have is to owe." "For the kingdom it might be, to make his fortune. He of heaven is as a man traveling into a traveled on the old Eric Canal. The far country, who called his servants captain of the boat was a wrinkled old and delivered unto them his goods. And salt, but he had a heart of gold. He unto one he gave five talents, to anoth- made the boy promise him to go to er two and to another one; to every some church, after he had gotten to man according to his several ability." the city, and become a Christian man. The old conception was, that God call- The boy was as good as his word. One ed some men to be missionaries, some day the minister preached a sermon to be preachers, and the like, while all on giving one-tenth of one's income to the rest of mankind were free from God, because it belongs to God. Young any particular obligation in the way of Colgate resolved that he would make

and missionaries and Y. M. C. A. secre- and by he became a partner, and then taries are not the only ones who are sole owner. But each year a tenth of owing God. All who own owe. Take his income was set aside as belonging time, for instance. The great thinkers to God. At length he made so much of all ages have been misers of time. that he gave away one-fifth of his in-Time is money, but it is more than come. This was the beginning of the that. Time is life, time is everything, great firm of Colgate, now known He who wastes time in trifles is a rob- throughout the world. Another man ber of one of the Creator's greatest who followed the same rule became gifts. "Sixty minutes gone, and gone bankrupt. It did not look as though forever," exclaimed a great worker. God honors those who honor Him. He 'Lost, between sunrise and sunset two lost all, and, with his large family, was golden hours. No reward is offered, in sore straits. He had pledged \$2,500 for they are gone forever." Idle young to the Y. M. C. A., and he mortgaged people form a pathetic sight. Time his home to pay it. He struggled along consumed in youth for sowing wild oats for a few years, then discovered a maridea. Looking back, our most endur- turns. I will not state that a man will But that using one's income in the manner described in the Bible does produce financial soundness and prosperity, there can be no doubt. Experience confirms it.

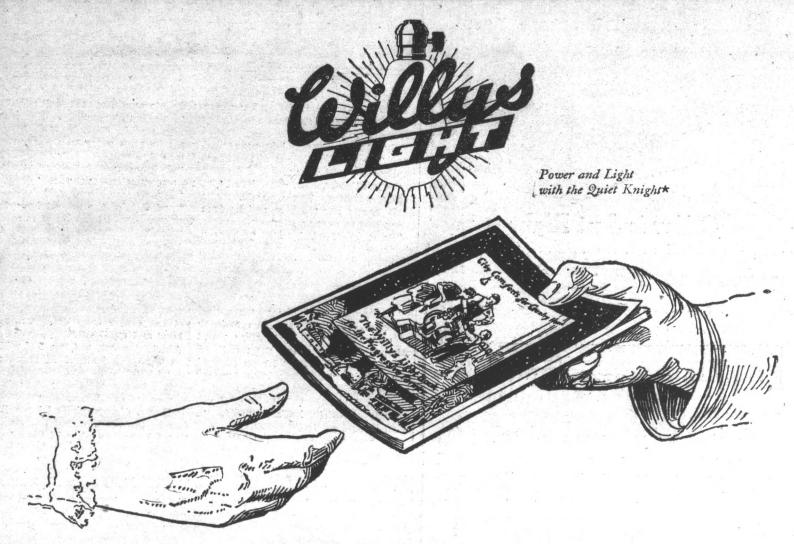
a social way. When they enter a group they are the life of it. They can make people feel at ease, they can conduct contact with professors who are spenot a dull minute. Such people have the great literature of the world. Hav- the community where they live. Such it in their power to do big things for a gift consecrated to God who gave it, and used in such ways as circumstances offer, is one that yields immense returns. To use it so, is to be a good trustee of the goodness of God. that capital, and from him society ex-young men. A man undertook to build up such a class. Doing the best he could, he pushed along sometimes with fear and trembling. Today that class is so large that a new room for meeting is required, and there is a waiting

Sunshine Hollow Items

By Rube Rubicon

Max Welton says he knows how to difficult places that the pagan world help. He buys the seed and helps with the repairs and pays you your wages promptly each month. Max says there A ND, there is our stewardship of is seldom any doubt but what your money. Or call it business ability, renter will give the place back at the

we fail in the use of money more than An emergency might arise when evin any branch of Christian teaching. To en the man-guest would appreciate the give away a certain per cent of one's mending basket placed in the guest



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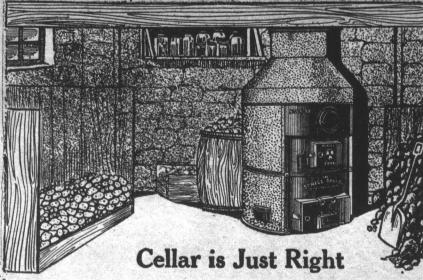
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Can be installed in any house, old or new, in a day's time. Let the dealer show you, or write to us for our informing book "The Last Word in Economical Heating," sent free on request.



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Carloads, 3x3x38 inches. Split or sawed. Must be straight grained. Highest price. HILTON COLLINS CO., Incorporated, Louisville, Ky.



Trained American Fox Hounds Rabbit and Skunk dogs all ages. Send stamp.
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THE VALLEY OF THE GIANTS

A ROMANCE OF THE REDWOODS

By Peter B. Kyne

Bryce listened to her gravely as with do, and I didnt think you would conall the sweet innocence of her years template anything that isn't nice." and unworldliness she laid the Ogilvy proposition before him.

her. "Buck Ogilvy is one of the finest tion, only-well-" gentlemen you'll ever meet. I'll stake my reputation on him. You'll find him no conversation—is that it?" vastly amusing, Moira. He'd make Niobe forget her troubles, and he does know how to order a dinner."

"Don't you think I ought to have a chaperon?"

Sequoia, where everybody knows everybody else."

thoughtfully. to come with us. Mr. Ogilvy won't illegal and unethical." mind the extra expense, I'm sure."

her maliciously. "Ask Miss Sumner ping." by all means."

When Moira had left him, Bryce in a closet and listen." sighed. "Gosh!" he murmured. wish I could go, too."

trospections presently by the ringing word of it." of the telephone. To his amazement Shirley Sumner was calling him!

"You're a wee bit surprised, aren't

grata with you."

"Are you relieved to find you are arrives." not? You aren't, you know."

"Thank you. I am relieved."

"I suppose you're wondering why I upon you to oblige me in this matter?" have telephoned to you?"

denness of it all has left me more or for you?" less dumb. Why did you ring up?"

"I wanted some advice. Suppose you have performed it." wanted very, very much to know what found yourself in a position where you matter immediately." couldn't eavesdrop. What would you do then?

severely. "That isn't a nice thing to

"I wouldn't ordinarily. But I have every moral, ethical, and financial "By all means, accept," he counselled right to be a party to that conversa-

"With you present there would be

"Exactly, Mr. Cardigan."

"And it is of the utmost importance that you should know what is said?' "Yes."

"And you do not intend to use your "Well, it isn't necessary, although knowledge of this conversation, when it's good form in a small town like gained, for an illegal or unethical purpose?

"I do not. On the contrary, if I am "I thought so," Moira murmured aware of what is being planned, I can "I'll ask Miss Sumner prevent others from doing something

"In that event, Shirley, I should say "He'll be delighted," Bryce assured you are quite justified in eaves drop-

"But how can I do it? I can't hide

"Buy a dictograph and have it hidden in the room where the conversa-He was roused from his bitter in- tion takes place. It will record every

"Where can I buy one?"

"In San Francisco."

"Will you telephone to your San you, Mr. Cardigan?" she said teasingly. Francisco office and have them buy one "I am," he answered honestly. "I for me and snip it to you, together had a notion I was quite persona non with directions for using. George Sea Otter can bring it over to me when it

"Shirley, this is most extraordinary." "I quite realize that. May I depend

"Certainly. But why pick on me, of "No, I haven't had time. The sud- all persons, to perform such a mission

"I can trust you to forget that you

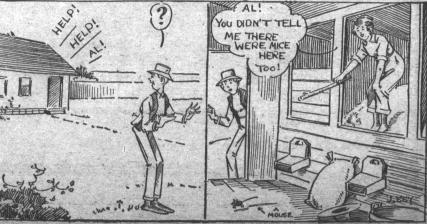
"Thank you. I think you may safely two people were talking about, but trust me. And I shall attend to the

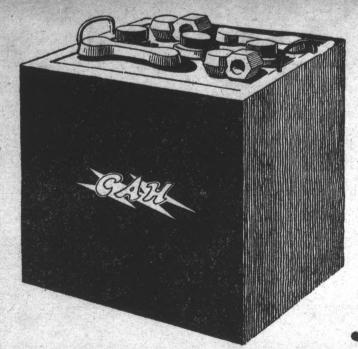
"You are very kind, Mr. Cardigan. How is your dear old father? Moira "I wouldn't eavesdrop," he told her told me sometime ago that he was ill."

(Continued on page 276).

The Mighty Falleth While Those of Low Degree Are Exhalted. - By F. R. Leet







This Guaranteed 6 Volt 80 Ampere

Storage Battery
for \$22¹⁰ other sizes at proportionately low prices.

WE SAVE YOU 50%

HERE is a storage battery designed and built for long, steady, dependable service—a storage battery backed up with the strongest kind of a guarantee and sold to you direct at a big substantial saving.

In construction, C. A. H. Batteries are equal to any standard batteries built. Extreme care is taken in every detail of their manufacture, and only materials of the highest grade are used in their make-up.

They are built rugged and strong to withstand the jars and jolts to which a battery is always subjected, and we doubt if there is another battery on the market to-day that will stand up under as much abuse as the C. A. H.

condition. Especially is this so when you have a well made battery built with an extra margin of strength to withstand hard service. ermore, with every battery sold we furnish simple instructions that will enable anyone to easily keep their battery in perfect condition.

Shipped On Approval

You take no risk in buying C. A. H. Batteries. We ship them to you with a distinct understanding that if the battery is not fully up to your expectations it can be returned to us and your money immediately refunded.

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Features That Mean Long Life and Dependable Service

There is no secret to the long life of C. A. H. Batteries—Their sturdy construction plus the fact that no single detail is skimped in any way are the real factors back of the splendid service that these batteries render.

To begin with the box is strongly made of carefully selected and well seasoned material. The cell connectors are extra heavy, containing nearly twice as much material as you will find in many batteries. Another important feature is the plates used in C. A. H. Batteries —they also are extra strong—and not only are they scientifically designed to expose the greatest amount of active material to the acid solution, but they are also of more than or-dinary thickness. This means longer life for the plates and greater discharge capacity for starting in cold weather. Even the sealing compound we use is made for us from a special formula. In fact every feature such as jars, separaters, terminals, etc., are made with great care and rigidly inspected and tested.

Moreover each and every battery is given a final test just previous to shipping.

Easy To Care For

Contrary to general opinion, a storage bat-tery is not a difficult part of a car to keep in

Guarantee No.

C. A. H. Starting and Lighting Batteries

This list gives the five standard sizes in which C. A. H. Batteries are furnished, and a number of cars to which each size is adapted. If the car for which you desire a battery is not listed, you can easily determine the correct battery to order by measuring your old battery for height, width and leaves. and length.

Type C. 6 Volt, 80 Ampere

Length, 8 ½ ins.; width, 7½ ins.; Price \$22.10 height, 8 ins.; weight, 42 lbs. Price \$22.10 Fits Ford, Overland "75," Dort, Buick Light Six, Chevrolet, Saxon, Chalmers, Oldsmobile, Oakland Light Six, Liberty, Essex, etc. etc.

Type A. 6 Volt, 120 Ampere,

Length, 10 1/4 ins.; width 7 1/4 Price \$22.97 ins.; height, 9 ins.; weight 52 lbs. Fits Studebaker, Hudson, Cole, Paige, Reo, King, Hupmobile, Chandler, Haynes, Mitchell, Nash, etc.

Type H. 6 Volt, 120 Ampere,

Length, 19 ¾ ins.; width, 4 ¼ ins.; height, 9 ins.; weight, 52 Price \$22.97 Fits Cadillac, Overland, Willys-Knight, Briscoe, Glide, National, Premier, etc. Type O. 12 Volt, 35 Ampere,

Date

Length, 1134 ins.; width, 714 ins.; height, 9 ins.; weight, 55 Price \$25.27

Fits Dodge Bros., Ford, (Fisher Starter), Marmon, Maxwell ('18 and '19 models) Franklin.

Type L. 12 Volt, 35 Ampere, (Split assembly). Length, 11 34 ins.; width, 7 14 ins.; height, 9 ins.; weight, 55 Price \$25.27

Fits Maxwell, Dort and Ford. We can also furnish special batteries for any make of car at proportionately low prices.

Read our guarantee carefully. Note that it gives you fifteen days in which to try out the battery thoroughly.

Furthermore, we back up every C. A. H. Battery with a most liberal kind of a guarantee for a period of one year. And our guarantee is written in plain straightforward terms with no qualifying clauses or special provision. If your battery goes wrong we simply replace it immediately without ques-

We can afford to make this kind of a proposition because we know just how good C. A. H. Batteries really are—we know that if you will give your battery ordinary care, it will serve you many months beyond the period of our guarantee.

How To Order

Select the size battery that fits your car. The list in center panel gives the sizes most used and cars to which they are adapted. However, we can furnish batteries for any car. If the car you drive is not in the list, all you have to do is to measure your old battery and give us the dimensions in length, width and height. Also name of car and

Send five dollars (\$5.00) with your order. We then ship battery subject to examination. If satisfactory, you pay express agent the balance, otherwise have battery returned to us (charges collect) and your \$5.00 deposit will be refunded immediately.

You can order by letter, or if convenient, you can use the coupon printed below.

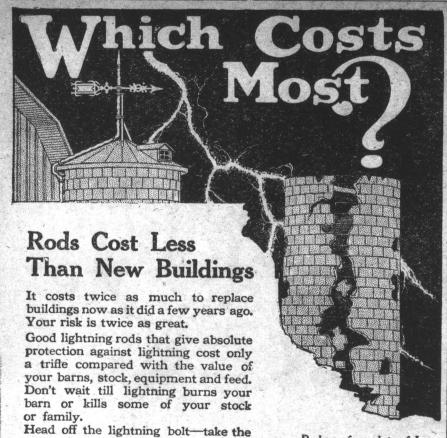
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Clip the coupon today, and order your C. A. H. Battery at the first sign of trouble. Our prices are more economical than expensive repairs.

become defective within twelve (12) months from above date, provided battery is returned to the company, transportation charges prepaid. The C. A. H. Battery Sales Company, hereby agrees to refund the full purchase price of the C. A. H. Battery covered by this guarantee providing the purchaser returns same, transportation charges prepaid to the company, not later than fifteen (15) days from above All batteries must be sent to the company for replacement and all matters connected therewith handled by them. C. A. H. BATTERY SALES COMPANY,

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Detroit, Mich.	
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one type	battery. Size of m
old battery	Length
Width	Height
Name of car	Year
It is understood that if, factory, it is to be ret refunded.	, upon examination, battery is not sa urned at your expense and my mone
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Town	
State	



Miller Lightning Rods

Fill in the coupon below and mail it at once. We will send you a free book, entitled "Lightning Rods," which will give you the facts about lightning, as confirmed by scientists, insurance men, underwriters, fire marshals, and others in a position to know. Let us send you the name of the nearest Miller dealer. But don't put it off, delays are dangerous.

Redrawn from photo of Jos. Childer's silo totally destroyed by lightning at New Berlin, Mo. Mr. Childer's son and daughter narrowly escaped death.

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The Valley of the Giants

(Continued from page 274).

By the way, Moira doesn't know that ing to build that road. Then I shall you and I have ever met. Why don't act independently of you both. you tell her?"

"I can't answer that question-now. you each a poke then." Perhaps some day I may be in a position to do so."

of each other, Shirley."

fault. I have told you once how you not possess. However, the day I accan obviate that distressing situation. quire the right I shall exercise it." But you're so stubborn, Mr. Cardigan."

"I haven't got to the point where I softly, in awesome tones! like crawling on my hands and knees," he flared back at her. "Even for your the N. C. O." sake, I decline to simulate friendship as they are between us.'

still after Uncle Seth's scalp?"

mine.'

just to make me suffer for the sins of mured. my relative, Bryce?" she demanded.

mine. You do not understand."

realize it. I understand just enough to way out of his dilemma. make me feel sorry for you. I underyou understand?"

derstand! I'm in this fight to win."

reiterated.

"Why?"

you should build the N. C. O."

Ogilvy?"

it, and you admitted it."

uncle now," he retorted witheringly.

"On the contrary, I am not. I great- to benumb his brain as it had his son's. ly fear I was born with a touch of money by surrendering now. I hold storm." the whip hand."

How lovely everything would have knew. been if you two hadn't started this feud "What is it, son?" he demanded and forced upon me the task of trying gently as Bryce came up the low steps.

"I think I can-even up to the point "He's quite well again, thank you. of deciding whether or not you are gogive my slang, but-I'm going to hand

"Shirley," he told her earnestly, "listen carefully to what I am about to "It's too bad the circumstances are say: I love you. I've loved you from such that we, who started out to be the day I first met you. I shall always such agreeable friends, see so little love you; and when I get around to it, I'm going to ask you to marry me. At "Indeed, it is. However, it's all your present, however, that is a right I do

"And when will that day be?" Very

"The day I drive the last spike in

Fell a silence. Then: "I'm glad or tolerance for your uncle; hence I Bryce Cardigan, you're not a quitter. must be content to let matters stand Good-bye, good luck-and don't forget my errand." She hung up and sat at She laughed lightly. "So you are the telephone for a moment, dimpled still uncompromisingly belligerent- chin in dimpled hand, her glance wandering through the window and far "Yes; and I think I'm going to get away across the roofs of the town to it. At any rate, he isn't going to get where the smokestack of Cardigan's mill cut the sky-line. "How I'd hate "Dont you think you're rather un- you if I could handle you!" she mur-

Following this exasperating but il-She had called him by his first name. luminating conversation with Shirley He thrilled. "I'm lost in a quagmire Sumner over the telephone, Bryce Carof debts-I'm helpless now," he mur-digan was a distressed and badly wormured. "I'm not fighting for myself ried man. However, Bryce was a comalone, but for a thousand dependents municant of a very simple faith-to -for a principle-for an ancient senti- wit, that one is never whipped till one ment that was my father's and is now is counted out, and the first shock of Shirley's discovery having passed, he "I understand more than you give wasted no time in vain repinings but me credit for, and some day you'll straightway set himself to scheme a

For an hour he sat slouched in his stand what even my uncle doesn't sus- chair, chin on breast, the while he repect at present, and that is that you are viewed every angle of the situation. He the directing genius of the Northern found it impossible, however, to disso-California and Oregon Railroad and ciate the business from the personal hiding behind your friend Ogilvy. Now, aspects of his relations with Shirley, listen to me, Bryce Cardigan: You're and he recalled that she had the very never going to build that road. Do best of reasons for placing their relations on a business basis rather than The suddenness of her attack amaz- a sentimental one. He had played a ed him to such an extent that he did part in their little drama which he not take the trouble to contradict her. knew must have baffled and infuriated Instead he blurted out, angrily and de-her. More, had she, in those delightfiantly: "I'll build that road if it costs ful few days of their early acquaintme my life-if it costs me you. Un- ance, formed for him a sentiment somewhat stronger than friendship (he "You will not build that road," she did not flatter himself that this was so), he could understand her attitude toward him as that of the woman "Because I shall not permit you to, scorned. For the present, however, it I have some financial interest in the was all a profound and disturbing mys-Laguna Grande Lumber Company, and tery, and after an hour of futile conit is not to that financial interest that centration there came to Bryce the old childish impulse to go to his father "How did you find out I was behind with his troubles. That sturdy old soul, freed from the hot passions of "Intuition: Then I accused you of youth, its impetuosity and its proneness to consider cause rather than ef-"I suppose you're going to tell your fect, had weathered too many storms in his day to permit the present one

"He will be able to think without sporting blood, Mr. Cardigan, so I'm having his thoughts blotted out by a going to let you two fight until you're woman's face," Bryce soliloquized. exhausted, and then I'm going to step "He's like one of his own big redwood in and decide the issue. You can save trees; his head is always above the

Straightway Bryce left the office and "I prefer to fight. With your per- went home to the old house on the mission this bout will go to a knock- knoll. John Cardigan was sitting on the ve anda from a stand beside "I'm not so certain I do not like you him George Sea Otter entertained him all the more for that decision. And if with a phonograph selection—"The Suit will comfort you the least bit, you wanee River," sung by a male quarhave my word of honor that I shall not tet. As the gate clicked, John raised reveal to my uncle the identity of the his head; then as Bryce's quick step man behind the N. C. O. I'm not a spurned the cement walk up the little tattletale, you know, and moreover I old-fashioned garden, he rose and stood have a great curiosity to get to the end with one hand outstretched and trembof the story. The fact is, both you and ling a little. He could not see, but Uncle Seth annoy me exceedingly, with one hand outstretched and tremb-

to be fair and impartial to you both." "George, choke that contraption off." "Can you remain fair and impartial?" (Continued next week).

(Continued next week).



J.FLOYD IRISH

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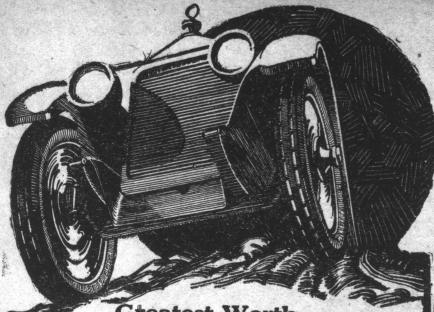
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Our Boys' and Girls' Page

Boys' and Girls' Books

Growing Stronger by the Things We Read-Uncle Ed.

O into the room of a boy or girl "he is going to preach us a sermon on

of your character in this way? What upon the Bible. would be the kind of books and papers one would find in your room were he as you ought? Business men will tell to respond to an invitation to visit you? you that the need of the world today This is so important a matter that it is for living that is based on the Bible. about it a few minutes.

Life in What We Read.

Have you not often wondered how it best there is in life. is that right out of the same spot of ground, roses and thistles will grow? One flower with the sweetest perfume smells so disagreeable that you cannot bear to hold it to your nose will come up and grow luxuriantly. And if you think of it, you know that the secret of it is in what the roses and the vilesmelling plants gather up from earth and sunshine and dew and rain.

It is quite like that with you and me. The books we read and the papers and magazines on our tables put something into our lives. Will we gather up from our books the things that will help us to be good and strong and pure and true? Or will we be compelled some day to admit that our thoughts have been tinged with the bad by what we have read? Thoughts make life. Good wonderful thing we call the mind.

What Do You Long To Be?

'What do I want to do and to be most of all?" I am sure not one of us but has some idea of the kind of man or woman he or she would like to be. Not one of us, I know, would deliber. Bible. ately say, "I am going to be mean and unkind and selfish." We would be into do and to be.

to correspond with our ideal.

The Foundation Book.

and you can pretty nearly tell the value of the Bible as literature." whether you would want to be But you will be mistaken. No such very intimate with them, just by look- purpose is in my mind; but this I am ing at the books and the papers you sure you will let me say; and that is, see there. In these days you would you may read books and papers by the not visit many young folks that you ton and if you leave out this one book, did not find some sort of reading mat- you have left out the book that counts ter on the table, or perhaps on the for most in the building of character. bed, or scattered about on the floor. No helpful book was ever written, none How would you like others to judge ever will be published that is not based

Do you think as highly of the Bible is well worth while for us to think They know that men and women who take this Book for their guide will not go far astray, but they will win the

A Voice that Should be Heard.

On the table before me as I write to will lift up its head out of the earth, Farmer whom I have come to love very dearly, there now lies a copy of a paper published at Washington, called "The United States Bulletin." On the first page of this paper every week is this line printed: "Presenting such news as is necessary to keep business men properly informed on current events." By business men, then, and for business men this paper is published every week. In the issue for June 28, 1920, I find this paragraph:

"We do not attempt to say whether the church people of this country should vote for the republican or the democratic candidate in November; but we do say that all such men, and women where they can vote, should or bad literature makes or mars the get down on their knees and ask God for guidance in the casting of the ballot. We believe that this ballot should Stop just here and ask yourself, be cast for the party standing for the most Christian principles.'

This is the strongest kind of argument that could possibly be used on behalf of the living taught by the

The Thing that Will Follow.

Taking it for granted that you do dignant if anyone should even suggest love the Bible best of all books, there that this is the thing we are planning is little danger that you will not love other books and papers that help in And so we need to have very clear building Christian character. The boy ideas as to our future lives, and hav- who goes away from home with a copy ing decided just what we would like of the Bible in his trunk is not very most to be, we are to bend every effort likely to put in with it any book that in the direction of building character he would be ashamed to bring out and show the best friend he has in the world; and surely no girl would be seen "Now," you will not say, I am sure, with a bad book in her room under

fu



Exhibit by Girl Club Members at Recent Upper Peninsula Round-up.

any circumstances if the Bible is the book she prizes most highly.

So while a great many articles have been written, giving lists of books the young person should read, that will not be my purpose. Just read the very best books you can find, books that those who love you most and long most sincerely for your best good tell you are most helpful.

How Much Shall I Read?

There is not much danger in our times that you will read too much. The great thing is to read carefully and thoughtfully, trying to understand every sentence. If you see that you are getting so tired that thoughts slip through your mind without leaving any impression, stop and do something else. One book read and thoroughly mastered is better than a hundred lightly skimmed over.

It is fine to begin early to save good books. If you cannot buy a costly bookcase, make you one of boards, cover it over with pretty paper and set it up in the best place in your room. You will love it more and more the more books you get.

FIFTEEN TEAMS ENTER JUDGING CONTESTS, NATIONAL DAIRY SHOW.

As the closing day for entires for state teams of boys and girls for junior judging contests rolls around, entries from fifteen states are filed with the show management, and three or four other states are asking for a few days' grace as they need more time to make arrangements to send a team before making entry. Teams are entered so far from the following states: Delaware, Idaho, Illinois, Indi ana, Iowa, Maryland, Michigan, Minne sota, Mississippi, Missouri, Nebraska Ohio, Pennsylvania and South Dakota

The dairy show management has made hotel reservations for forty-five boys and girls who will be guests of the show, at the Y. M. C. A. Hotel and the Y. W. C. A. Hotel, respectively, and if any of the parents or friends of the boys or girls are coming along, reservations can be made for them. These hotels are as comfortable as any in town, so far as comforts go, and some of the luxuries may be found at both. They are both scrupulously clean, central of location, and handy for elevated and surface cars to the show buildings. The boys and girls will be looked after in every respect.

The National Dairy Show is the leading agricultural and industrial fair in America, and is filled with everything a dairyman should be kept in constant touch with.

The boys and girls fortunate enough to be sent to this show's contests will derive a benefit that will be life-lasting, and will get inspiration that will be bound to have an influence in the shaping of a successful career.

The men of vision in the several states who are making it possible that these boys and girls can participate in this wonderful event in their young lives, and the parents and the relatives of the children can all well afford to come to the show to see just what the whole show means to the dairy industry and perhaps get as much out of it as the young people.

The show dates are October 7-16, and the big day for the boys and girls is Friday, October 8. Sunday, October 10 they will see some of Chicago's big industries, and hear men of national standing speak on religious and agricultural topics.

With plenty of flowers to be had for the picking, it's well to remember that many a hospital shut-in would be grateful for the dash of color posies would bring to the bedside.

Burlap sacks represent real money these days. Those with small holes or well worth mending.



There was once a man called "farmhand"

> "If farmhands grow much scarcer, we will soon forget what the word means. Help is certainly hard to get. But I have found help in another form—an electric power and light outfit. I want to tell you what these plants can do for you, and some of the things they

> > H Bowman

Editor's Note: Mr. Bowman's farm is located near Ames, Oklahoma.

OT being able to get any steady help, I have been doing most of my work myself. It worried me to think that every hour I spent milking cows, turning a grindstone or chopping wood was just so much time taken away

from necessary work in the fields.

"Last spring I became interested in the question of a farm plant. But I delayed buying one, because those I first saw were not much more than lighting plants. They didn't showup well in a power test for heavy work.

right to the job "Now my idea of a piece of farm machinery is that it must be useful first of all.

An outfit that does a man's work

"I kept on looking till I found the plant that came nearest to satisfying my need for power - A Western Electric Power and Light Outfit. I'm not saying that this outfit can mow the hay or do any plowing. But it certainly is do-

ing some real, honest-to-goodness work for me, saving time and labor. "In the first place the Western Electric Outfit has an engine that can operate pretty near all the machinery on the average farm. It runs my fanning-mill, feed-

mixer and milking ma-

"Then with the generator and batteries in action-or the batteries alone - I let electricity milk the cows. The utility motor, which I can carry around and connect to any lamp socket, is mighty handy for such jobs as running the churn or

the grindstone, or in fact, turning any machine I used to turn by hand.

"All this means time savedand time is money when a man is in the middle of his planting or harvesting."

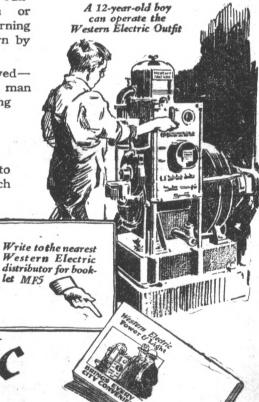
Long life to your battery

You may be interested to know that the engine to which

Mr. Bowman refers is of the dependable valve-in-head, aircooled type, burning gasoline or kerosene.

The battery lasts long because of the famous "tapering charge", a Western Electric feature. An automatic control very gradually decreases the rate of flow as the battery fills, till the current stops gently by itself. This takes all strain off the battery.

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Those teeth enemies are most active while you sleep, because they can work undisturbed between the teeth where particles of food may remain.

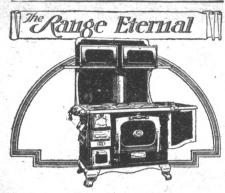
So clean your teeth with Colgate's Ribbon Dental Cream every night. Use Colgate's every morning, too - safe, sane and deliciously flavored.

Colgate's is Recommended by More Dentists Than Any Other Dentifrice

Colgate's is sold everywhere-or send 2c for generous trial tube

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Our immense factory facilities are running to capacity to produce Range Eternals. And as we are rapidly increasing our production — ALL dealers' stocks should be adequate in the near future.

You may not have to wait very long for a Range Eternal. But in the meanwhile — get along the best you can with your old range.

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Two Generations of Malleable Range Builders

Woman's Interests

What is Freedom?

en will read this paper this week. I you do. can see them now, countless farm than by the real labor.

any other class, not even excepting the few who still go out by the day in cities to clean and wash. But just the same, a great deal of the tiredness comes from the state of mind. You can prove it to yourself.

hate? It may involve more actual mus-tired out. cular work, but don't you get through the job feeling fresher than when you If we could only keep cheerful about tion among womankind today. Wom-

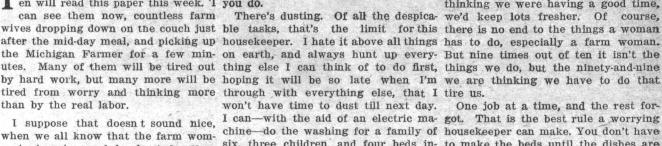
tired from worry and thinking more through with everything else, that I tire us. after I've dusted the living-room.

You see it is largely a state of mind.

SUPPOSE a great many tired wom- finish the one you dislike? Of course all our tasks, and jolly ourselves into thinking we were having a good time,

en in America work harder today than six, three children, and four beds in- to make the beds until the dishes are cluded, and not feel so tired as I do washed, so why keep thinking about how they are waiting? And while you Why? Because I like to wash. I'm are out picking the fruit to can, why cheerful and contented while I'm at not enjoy the fresh air and the bird that job. But I hate dusting, and ev- song, instead of keeping in a stew ery whisk I give with the dust cloth is about the bread rising in the house, a protest of rebellion against a world and the cans that must be carried up Does the thing you like to do tire that made dusting fashionable. When out of the cellar? If you could educate you as much as the task you absolutely I finish I'm disgusted and cross and your mind to work in that way, you'd add no end of enjoyment to your life.

There is a great deal of dissatisfac-



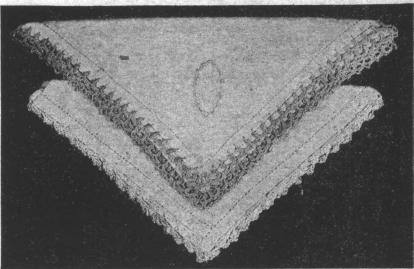
Dainty Borders for Everyday Handkerchiefs

HE plainest of handkerchiefs can be made pretty, at very little expenditure of time and money, by adding a crocheted edge in white or one of the pastel colors. The handkerchiefs here shown were worked with the No. 70 tatting thread, and are very simple and easy to do.

No. 1 has a border of half-stitch done in a delicate pink thread with a fine needle, No. 11 or 12. The thread is fastened in the corner of the handkerchief and the border worked right on it as follows:

Ch 6, * join with sc into edge of handkerchief about a quarter of an inch from where ch begins. Turn 5 sc into 6 ch turn, 6 ch, repeat from star all the way around handkerchief, making the holes a little closer together in rounding the corners. Then go all around the edge, making 5 sc into each mesh or hole, with 4 ch between each mesh. This completes the pattern.

No. 2 is also crocheted right on the the third ch, 1 dc (thread over once), tle closer together.



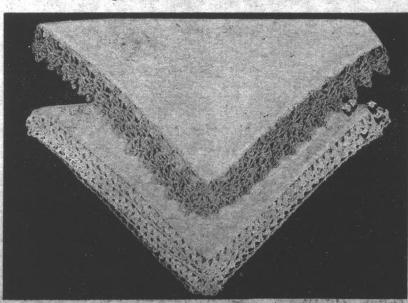
Nos. 1 and 2 Are Worked Right on the Handkerchiefs.

gin in the corner with * 4 ch. In the beginning of ch, repeat from * all first ch, ch 2, dc into first ch, ch 2 resecond ch from needle make 1 sc, in around, making the corner points a lit- peat from * till there are four dc in the

and in the fourth ch, 1 tr, (thread over No. 3 is a variation of the old-fash- Make 4 dc with 2 ch between each into

handkerchief, with white thread. Be-chief about a quarter of an inch from ed in lavender thread. Ch 5, * dc into ch with 2 ch between each. Ch 5 turn. twice). Join into edge of handker-ioned mile-a-minute crochet. It is work-first hole from needle, instead of into the center hole as in mile-aminute, ch 5, turn and repeat till the crochet is long enough to go around the handkerchief, allowing for extra fullness at the corners. Then make the top by ch 5, sc into 5 ch of lace, all the way along, and sew this top to the handkerchief.

No. 4 is white double hair pin work, with a finish of blue chain, and a top of white chain. The thread is tied in a loop round one prong of a medium sized hairpin. The thread is passed around the other prong, and pulled through the loop on the first prong in 1 sc. Make two more sc into the same loop. Pass thread around prong and make three sc in loop made by passing thread around first time. When the pin gets full of loops, pull the work off and insert prongs in the last two loops. Continue till there is enough to go around the handkerchief. Finish outer edge with 4 ch in blue between each loop and top with 3 ch in white, between each loop. HELEN COM



Nos. 3 and 4 Are Adaptions of Simple Stitches.

THE SIGN OF ROW



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We back LILY WHITE without reservation.

It is a flour milled from choicest selection of soft and hard wheat grown in America. The soft wheat improves the flavor and color. It insures the baking of a good looking loaf of bread. The flour is correctly balanced to make as good bread as it does biscuits and pastry. There is just enough hard wheat in LILY WHITE to make it the ideal all-around flour.

After being cleaned four times it is scoured three times, then actually washed, so that every bit of dirt is removed from the kernels of wheat.

It has absolute uniformity of granulation, superfine texture and color. Everything baked from LILY WHITE, an all-around flour, has unexcelled flavor, is light, tender, good looking, delicious tasting.

Make your next sack of flour LILY WHITE—and remember our guarantee that it must give you complete satisfaction.

Ask for it at your dealer's.

VALLEY CITY MILLING CO.

GRAND RAPIDS, MICHIGAN

"Millers for Sixty Years"

en-mothers-are pining to get away from home duties and try their fortunes in the world. And writers who should know better are doing their bit to encourage the unrest. That unrest is simply a state of mind, too, and the dissatisfied home-makers would be equally dissatisfied in an outside job. They are pining for freedom, and they think they'll get it by hiring themselves out to work for someone else. Why, who has more freedom than the woman at home? She has her duties to her family, but what adult worth while would want to be without some duty? The mother in the home is freer than any other woman. She is giving orders, not taking them, while it is only the exceptional woman in business who rises to a place where she has people under her, and that takes years of time. The great mass of women workers outside their own homes are far from being free. They are slaves to the fear of losing their job, and under orders from several "higher ups." And they're a long way from being freed from drudgery. Every office has its tiresome tasks, and the woman draws them every time.

Freedom is largely a state of mind, anyway. You can be a slave to your job, or make it your servant, just as you like. And it doesn't matter whether the job is running a farm kitchen or running the ship of state.

DEBORAH.

Lookforthe

ROWENA

trade-mark

on the sack

IN CLOVERLAND.

7E are apt to think of the northern part of Michigan as a mining section, and to claim that the agricultural part of it is confined to the lower peninsula. The county agents and home demonstration agents can tell a different story. Take Gogebic county alone; there are five hundred farmers on the mailing list on whom County Agent C. E. Gunderson can rely to want the latest and best methods in farming, and whose wives are just as anxious to have Miss Sylvia Richardson, the home demonstration agent, give them the best thought on nutrition and clothing, health and civics. And the women aren't a bit averse to having the latest things in fashions or the newest stitch in fancy

They are doing things in Gogebic county. For one thing they have just employed a county veterinarian, the first county in the state to take this step. They have also organized a cowtesting association and hired a cow tester. This last was done at the recent county farmers' picnic and girls' club achievement day in Ironwood. City folks and country folks got together on this day and separated with a little better knowledge of one another's needs and ideals. The Commercial Club of Ironwood gave the prizes to the garment clubs, which Miss Richardson had been directing throughout the year. There was community singing and folk dancing, songs and drills by the different girls' clubs, and then a speech and presentation of prizes by E. R. Oxnam, secretary of the Ironwood Chamber of Commerce.

After this the men and boys and the women and girls separated into two groups. Miss Aurelia Potts, in charge of the extension work in the northern peninsula gave a cooking demonstration and instructions for drying fruit and vegetables to the women; Miss Richardson demonstrated the fireless cooker; certificates of achievement were given the garment club members, and there was a mock track meet and games.

County Agent Gunderson addressed the men, and J. A. Waldron, of the agricultural college dairy department, gave an address and a stock judging demonstration. John Auderson and Carl Silberg had a program for the boys which included all sorts of athletic matches.

The Modern Table Drink

A combination of good flavor, economy, efficiency and health satisfaction

INSTANT POSTUM

This pure and wholesome beverage contains none of coffee's harmful ingredients. Especially valuable in families with children.

Sold by all Grocers

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

GENUINE ASPIRIN

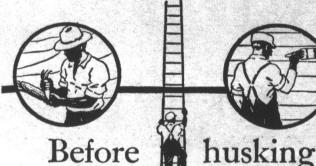


Name "Bayer" identifies genuine Aspirin introduced to physicians in 1900. Insist on unbroken packages of

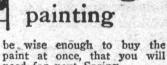
BAYER-TABLETS of ASPIRIN

Aspirin is the trade mark of Bayer Manufacture of

Please Mention The Michigan Farmer When Writing to Advertisers



do that



By that painting, we mean any painting that needs to be done.

When it gets to be this time of year most of us kind of like to put off things until next Spring. If you do that with your painting, it's going to cost you more to paint, just as sure as corn grows on a cob. Cost more, because you will have to use *more* paint; because paint itself may

then be costing more.

If you can't get the time this Fall to do your painting, then be wise enough to buy the paint at once, that you will need for next Spring.

And while you are thinking And while you are thinking of paint, drop us a postal for a valuable piece of advice called — "Figure Your Paint Costs with a Brush—Not a Pencil." It will show you how to save money on both your paint and your painting.

Remember that Lowe Brothers' Barn Paint is always sold by the one best dealer in each town.

The Lowe Brothers Company

499 EAST THIRD STREET, DAYTON, OHIO

Boston New York Jersey City Chicago Atlanta Knasas City Minneapolis Toronto

POULTRY

PULLETS

We have a supply of Pullets that will interest you and that will give winter eggs to add to your profits.

8 Weeks Old Leghorns
There are 500 S. C. White Leghorns; also 75 8 weeks old Anconas.

White and Brown Leghorns, also 75 8 weeks
White and Brown Leghorns, now laying; Anconas,
Minorcas: Rocks, Reds and Wyandottes, Let us tell
Gotkeress English White Land we have.
s—English White Leghorns only; no others
STATE FARMS ASSOCIATION,
Kalamazoo, Mich

BARRED ROCKS

Cockerels, Pullets, April hatched, get Norman's superior strain direct. Catalogue 25c. Circular free. NORMAN POULTRY PLANT, Chatsworth, Ill

BARRED ROCKS. Park's 200-egg cocker-els which will produce fine layers next year, '\$3 each. R. G. KIRBY, R. I. East Lansing, Mich.

COCKERELS

Improve your next year flock with Papes Triumph mating strain S. C. Black Minorcas Cockerels, price reasonable, Mrs.W.H.Morrison, R.3, Jonesville, Mich.

Pullets and cockerels. From thorough-bred Baron White Leghorns the type that are bound to make good producers. Raised on free range. Every bird guaranteed and shipped on approval. Send for prices and catalog. A few Barred Rock Pullets. Brummers Poultry Farm, Holland, Mich.

BABY CHICKS of superior quality from record laying purebred stock. All varieties. 12 cents each up. Postpaid. Live arrival guaranteed. Guaranteed none better. We give quickest delivery. Catalog free. SUPERIOR O.K. HATCHERY. Clinton, Mo.

Whittaker's Red Cockerels

Both combs. Special discount on early orders, Write for Price List.
INTERLAKES FARM, Box 39, Lawrence, Mich.

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

Chicks, Leghorns, Minoreas, Spanish, Houdans, Cam-pines, Reds, Rocks, Orpingtons, Brahmass Wyandottes. Tyrone Poultry Farm, Fenton, Mich

FOR SALE S. C. White Leghorn cockerels from Ferris 230-284 egg strain hatched in April and May \$2.75 each.
BAM HILL, BOX 142. Trout Creek, Mich.

Fowler's Buff Rocks. We are now booking or cockerels left. R. B. FOWLER, Hartford, Mich.

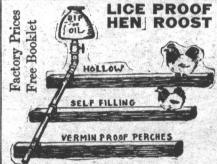
LOOK! CHICKS \$14 A 100 UP! By insured parcel post, postage paid. 40 breeds chicks, 4 breeds ducks. Ang. and Sept. chicks for February and March layers. Catalog free, stamps appreciated. NABOB HATCHERIES, GAMBIER, OHIO

Reduces Strained, Puffy Ankles, Lymphangitis, Poll Evil, Fistula, Boils, Swellings; Stops Lameness and allays pain. Heals Sores, Cuts, Bruises, Boot Chafes. It is a SAFE ANTISEPTIC AND GERMICIDE

Does not blister or remove the hair and horse can be worked. Pleasant to use. S2. 50 a bottle, delivered. Describe your case for special instructions and Book 5 R free.

ABSORBINE, JR., antiseptic liniment for mankind, reduces Strains, Painful, Knotted, Swollen Velns. Concentrated—only a few drops required at an application. Price 51.25 per bottle at dealers or delivered.

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



The lice and mite Proof Roost that so many hundreds of poultry people are using; prices and poultry booklet Free; Agents Wanted. ALLION VERMIN PROOF PERCH CO., Dexter, Michigan

R. C. Brown Leghorn C'k'rls \$1.00 each. White Pekin ducks \$2.00 each. Mrs. Claudia Betts, Hillsdale, Mich,

Silver Laced Golden and White Wyandotte eggs from best quality only \$1.75 per 15, \$3.25 per 30 by prepaid parcels post. C. W. Browning, B.2, Portland, Mich.

S. C. W. Leghorns Large stock, great layers. Choice sonable. V. A. MORSE, Ionia, Mich.

8, C. White Leghorns. Ferris 264 egg strain. Cocks and yearling hene for sale. Good stock. Safe arrival guaranteed. Alvah Stegenga, Portland, Mich.

Single Comb White Leghorns Cockerels from our exhibition matings April hatched \$3.50 each. Four fine cock birds \$5.00 each. SUNNYBROOK POULTRY FARM, Hillsdale, Mich.

Rhode Island Whites Are the best all purpose Birds being year reers, Egg and chicks and a few good males.
H. H. JUMP, Jackson, Michigan,

September Poultry Duties

Cooperative Elevator Company must care for them. received a shipment and sold them at Poultry keepers who can attend the

ment of a nice flock of geese next year. lems to solve. They are grass eaters and there is a Sanitary poultry dishes remain in good sale for breeding stock. Farmers that condition because of scrubbing should not neglect to own a nice pure- We find that clean corn cobs are rough bred flock.

very popular. They are not as large thrown away after the dishes are clean as Toulouse or Embden geese, but just and they are the cheapest and most about right for the average farm table. satisfactory helpers for doing such They seem less greasy than some of work. the larger breeds. A flock of White of any farm.

good supply in the feed room takes a ier to keep thrifty until spring. lot of worry out of the business of feedin the production of eggs.

the bulk of the feed is home-grown and home-mixed, and when the egg and broiler money arrives it does not have to be turned over to the feed dealer.

replacing so many of the layers each cannot find any. year. Now it is an annual struggle for ket and they must be replaced.

expense.

changed to dry dust and the scratch- loss.

FOR two weeks we were out of oys- ing of the hens will keep the air in the ter shells as none were for sale in house full of dust. This is unhealthful the community. Then the Farm- for the birds and the poultryman who

\$1.25 per hundred pounds. We stocked show at the State Fair are sure to be up and the hens made up for lost time encouraged by the large number of fine in eating shells. When shells were fowls on display. It seems as if these lacking some of the eggs produced had early shows are growing better in both very thin shells and were not safe to quality and quantity and it is a stimupreserve in waterglass. The strong lation to study the different breeds and appetite of the laying hen for oyster note the interest in poultry among othshells proves that they are necessary, er breeders. Sometimes the poultry-Next year goose eggs will be scarce man may feel alone in the business, esand many breeders will plan on start- pecially if he lives on a side road and ing a flock. Now trios of geese can be does not see other breeders often. It purchased at moderate prices and a helps to get acquainted with other men trio will be a sure road to the develop- and women who have the same prob-

with waste land and a liking for geese with hot water at frequent intervals. enough to make fine scouring tools for The White China geese seem to be gummed-up dishes. The cobs can be

It pays to have the clean litter in the Chinas will add to the attractiveness poultry house before the cold rainy fall days arrive. Then the hens have a When there is no time to mix a bal- fine scratching place and do not have anced ration at home it will pay to pur- to be on the windy range. It helps in chase the commercial egg laying mix- keeping down fall colds and the flock tures. In ton lots the cost is usually that goes through the unsettled fall less per one hundred pounds. And a weather in good condition is much eas-

The poultryman's camera can be ing poultry. If the mash hoppers are used to advantage in selling stock. A full every hen in the flock is sure of few small photos of the prize-winning square meals that are balanced to help birds or high egg producers are attractive to a prospective buyer. Such The safest poultry business, how-photos can be made up at a moderate ever, will always be on the farm where expense and frequently one additional order will pay for enough photos to R. G. KIRBY. last a year.

YOUNG TURKEY TROUBLES.

When the hens lay large double yolked eggs it is not a cause for rejoicing. The profitable hens lay eggs of a normal size and plenty of them. The large egg may simply use up the energy that might have been placed in two or three marketable eggs.

At the Beltsville, Maryland, Experiment Station, a hen called Lady Victory has produced 779 eggs in five years. In her pullet year she laid 214 eggs, which marked her as a bird worth keeping. Hens of that type will make a great change in the poultry business. If they can be developed in large number it will ease up on the necessity of replacing so many of the layers each

Possibly some of the young turkeys the poultryman to obtain plenty of may have been taken by hawks while thrifty pullets. The dairyman develops on the range. If they have been draga herd and he has an asset for several ged through wet grass by the mother years. But no sooner does the poultry they may have become weak and not keeper own a nice flock of hens and have strength to return at night. Young they are aged birds ready for the mar- turkeys sometimes have diarrhea the same as hen chicks. It can be controll-A Plymouth Rock or Rhode Island ed by feeding hard-boiled eggs and Red pullet does not complete her first stale bread sprinkled quite heavily year of egg production until about with pepper. It can largely be preventtwenty months old. A hen already a ed by using the greatest precautions year old can complete another year of to keep their food clean. The eating of egg production in one year. The first spoiled fruit sometimes makes turkeys eight months are approximately the pe-sick. Drinking unclean water is anriod of development and represent only other cause of mortality. Possibly the While the pullet may lay loss of the young turkeys may be due more eggs in her first laying year the to inbreeding or a lack of vigor in the hen does not have to be hatched and parent stock. Bronze turkey flocks grown on expensive feed before she is have often been improved in vigor by ready to lay. Farm poultry keepers making crosses with wild turkeys. need more hens that are good for two Farmers seem to find it more difficult and three years of profitable laying, to raise turkeys every year and the This does not mean the kind of hens flocks seem to be growing more scarce. that linger around for three or four In a measure it is probably due to the years without paying their board. fact that the birds need such a large Concrete floors will be more warm range that it is difficult for the owner and dry if a couple of inches of clean to control all the conditions on the sand are placed between the floor and range. It is not possible to determine the straw litter. Garden loam is not a from the above inquiry the many caussubstitute for sand. The loam is soon es which may be responsible for the

Alternation (PARTITION

FARMERS' AUTO TOUR.

(Continued from page 260).

During the last week before we started on the tour to Mackinaw we refused to accept forty-seven cars of tourists who decided at the last moment to take the trip. These cars had no equipment and we wrote the owners that we could not possibly provide more sleeping accommodations. Several of these owners joined us on the way and said they would like to go on their own responsibility and would provide for themselves. They got along all right, being fortunate in securing rooms at hotels and private homes where we camped.

Each car was decorated with pennants and flags and had a windshield record giving the name of the owner, his address and names of the passengers in the car. We have not the complete list of all the tourists, as some joined at the last minute and our record is incomplete. We wish the owner of each car would write us as soon as possible, giving the names and post office address of each passenger so we can prepare a correct list of members of the new "Michigan Farmer's Automobile Tour Association."

The pictures we took have been developed and are all good ones. Many gave orders to us for certain ones and these will be mailed soon.

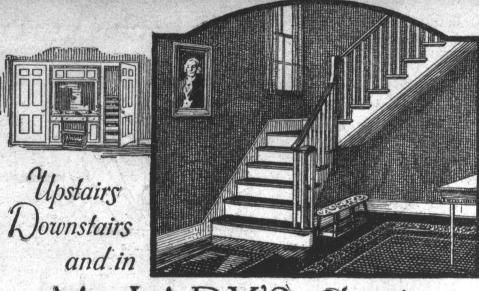
We wish to thank all the tourists for their cooperation in making the tour such a complete success. All gave us a handshake as we separated, and thanked us for the good time they had. The greatest surprise was a letter handed to us, just before we left the Soo camp, with a list of thiry-five farmers and their wives, containing a purse of \$35.00. We wish these friends to know that we fully appreciate their evidence of friendship and the present was a testimonial that the tour had been even a greater success than we anticipated. These thirty-five farmers who followed us across the straits drove nearly nine hundred miles before they got home again and they all said they had the most pleasurable trip of their lives and learned more about Michigan than they expected to before starting out from their homes.

On the west pike we had great times in camp at Grand Rapids, Manistee, Traverse City, Harbor Springs, Mackinaw City, Sault Ste. Marie and Boyne City. At each one of these places, after leaving Grand Rapids, we were met by committees of city officials, chambers of commerce, bands, and even a fire department truck at the Soo. At some places from six to twenty automobiles met us several miles out on the way and escorted us in and through the main streets and on to our camp.

At each city we were the guests of honor and programs were carried out with considerable variety and elaborateness. The barbecue at Traverse City was a novelty. The two bands and the jackies from the Great Lakes Training Station helped the citizens entertain us at Harbor Springs for two days. At the Soo the Pomona Grange of Chippewa county gave us a picnic and fine dinner in a grove near the Soo. Band music and speeches made up the program, in which the leading business men of the Soo participated.

The tour lasted for two weeks and not a single really serious disaster occurred along the way. Mr. and Mrs. W. H. Noble, of Quincy, had a spill on the road near the Soo and received some cuts and sprains. Several of us had punctures and blowouts of tires. We cautioned repeatedly about the railroad crossings. At last we are home again safe and sound.

Next week Thursday we expect to drive our car to Detroit and camp again on the State Fair grounds in the same location as last year, in the Boys' State Fair School section. Our car will be Michigan Farmer Touring Camp Headquarters and we shall be glad to see any of "Our Folks" who come along.



My LADY'S Chamber

CTAIRCASES in which beauty is the first con-Sideration, for the bedrooms built-in dressing tables that are a part of the house itself, mantels that carry out the architectural type of the housethese are items of Curtis Woodwork. Like the doors we build, and the china closets, the windows, the wall paneling, the cupboards, the bookcases, and all the interior woodwork which, built into a home, make it livable and lovable, they are all part of the Curtis plan to place beautiful homes within the reach of all who would build.

For over fifty years Curtis Woodwork has been known as good woodwork—honest craftsmanship. But we began to see our business as something more than a mill making a good product. We believed we could help America toward a happier type of architectural expression.

With the cooperation of Trowbridge and Ackerman, New York architects, we are able to offer home-builders portfolios of Better Built Homes, in four different architectural types-Colonial, Eng-

lish, Western, and Southern. Each portfolio contains

illustrations of exteriors, interiors, and floor plans, with complete descriptions of 32 homes. These houses range from 3-room cottages to 8-room homes. Curtis Woodwork and built-in furniture for these homes was designed by the same architects that designed the houses, to insure harmony of expression.

The designs and sizes of Curtis Woodwork being standardized, the lowered cost of production has brought the price of beautiful woodwork lower than it has ever been before.

Curtis Woodwork is sold through lumber dealers. Curtis dealers have the complete catalog to show. They can obtain free for prospective builders our portfolios of "Better Built Homes." Specify whether you want Volume VI (32 homes of 3, 4, and 5 rooms); Volume VII (32 homes of 6, 7, and 8 rooms), or Volume VIII (32 houses suitable for farm use).

If there is no Curtis dealer in your town, send 25 cents with the coupon checked for the portfolio (50 cents if in you want. Canada.)



Pendroy, C-532
ming 5-room house
sion, with the sa
mial house shown

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This is the Colonial expression e same plan as Pendroy, C-532,

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"The Permanent Furniture for Your Home"



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RK Name. Street or R. F. D.	5	### 4098-5098 So. Second Street, Clinton, Iowa Baclosed findcents in stamps for which please send me Portfolio of Better Built Homes, Vol. VI (3, 4, 5 room houses) 25c; Portfolio of Better Built Homes, Vol. VII (6, 7, 8 room houses) 25c; Portfolio of Better Built Homes, Vol. VIII (houses for farm use) 25c.
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Examining the tire layers after 15,000 miles

Tread Patented

Center tread smooth with suction cups, to firmly grasp wet asphalt. Geared-to-the-Road side treads mesh like cogs in dirt.



Gilman Bres., of San Jose, sold 1,200 Miller Cords in nine and a half months, have only made one adjustment. One of these tires went 53,000 miles on a heavy stage. Another 49,987. And a third 38,000 and still running.

From Colorado

The La Junta Motors Corpo-ration, La Junta, report that Millers average 15,000. They have not had one adjustment in two years.

From Florida

W. R. Link, tire dealer, of Orlando, reports four tires going over 28,000 miles on a car owned by the Hutchins Realty Company.

THE MILLER RUBBER COMPANY, Akron, O.

Also makers of Miller Inner Tubes, built layer-on-layer. Based on 24 years of fine-rubber experience. Red or Gray.

Tire Mileage Doubled

Costs us \$150 for each added mile

Miller Tire experts, in the past five years, have doubled their average tire mileage. They have cut the cost-per-mile in two. That will save Miller users this year some \$50,000,000.

The cost of these betterments, on the Cord type alone, has been \$1,136,419. Just the laboratory and testing expense last year averaged \$10,000 monthly. These thousands of added miles have cost us about \$150 each.

New-Grade Tires

The result is a new-grade tire. To hundreds of thousands it has brought a new conception of good tires

Now Miller Tires are everywhere discussed. They are used exclusively in some of the hardest services. The demand in five years has multiplied 20-fold.

Costly Methods

We keep 250 tires constantly running under observation. We destroy 1,000 tires yearly to learn how to improve them.

We separate tires after long, hard use to watch the effects on

We spend \$1,000 daily just to watch and test tires and materials. We sign every tire, so each returned tire teaches us its lessons.

Now Millers offer mileage which a few years ago was undreamed of. And they offer treads which, by countless tests, outlast the best of others by 25%.

You owe yourself a test. Learn what this doubled mileage means on your car. Compare the Miller Tire with others. Let the figures tell you which tire to adopt.

A maker who has made good tires twice better deserves a trial from you.

CORDS

Geared-to-the-Road Reg. U. S. Patent Office

FABRICS

The Supreme Attainments

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 blood lines to Effies Lass also four more choice bulls which are old enough for service and sired also by the champion show and breeding bull Black Monarch 3rd.

Our herd is under State and Federal Supervision.

WILDWOOD FARMS

ORION, MICHIGAN

W. E. SCRIPPS, Prop.,

Sidney Smith, Supt.

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.

For Sale Registered Guernsey bulls. May R. breeding cheap if taken soon Come write. John Ebels R, 2 Holland, Michigan.

Guernsey Bulls

a two year old and a three year old purebred May Rose bull. Dams, advanced registry, splendid individuals, none better for herd sires. Prices \$175 and \$200 respectively to sell them

Chetwood Farm, Northville, Michigan

Address John Stucey, Manager

SPRING DELL FARM GUERNSEYS also bull calves three to twelve months. Registered Splendid individuals and breeding. Prices right. WHITE BROTHERS, R. 2, Box 20, La Porte

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

L. J. BYERS, Coldwater, Mich.

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

Registered Guernseys a very fine show calf, this bull calf is out of a cow milking 40 lbs. a day, the price will calf is out of a cow milking 40 lbs. a day, the price will surprise you, better get his pedigree.

J. M. WILLIAMS, North Adams, Mich.

GUERNSEY BULL CALVES whose 19,460.20 milk, 909.05 fat. Their mother's sire's dam made 15,109.10 milk, 778.80 fat.
T. V. HIOKS, Battle Creek, Mich.

GUERNSEYS —REGISTERED BULL OALVES Containing blood of world champions.

MICKS' GUERNSEY FARM, Saginaw, W.S. Mich

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

May Echo Sylvia Bull calf. 2 crosses to May Echo Bylvia, and 3 crosses to King of the Pontiacs, Dam a 2 yr. old daughter of a 28 lb, cow, 6 of his nearest tested dams average 34.9 lb, of butter and 759 milk. O. H. GIDDINGS, Gobleville, Mich.

LONG DISTANCE HOLSTEINS HERD SIRE PRINGE ONA (Prince Ona) 28655 Five dams av 1186 lbs. butter and 24771 lbs. milk in 1 yr. Only 1 good bull calf left, burn Nov. 18th '19, dam untested, \$100. State and Federal Supv.—a clean herd. A. FLEMING, Lake, Mich.

31.06 lb. butter 578.46 lb. milk in 7 days, is dams of 2 mo. old bull. Price \$150. Terms. M. L. McLAULIN, Redford, Mich.

-Winn Wood 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 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.) Michigan

Additional Stock Ads on Page 286

STARTS LIVE STOCK EXCHANGE.

HERE has been started a state live stock exchange by the Live Stock Marketing Department of the Illinois Agricultural Association that will be a medium through which feeders and breeders can purchase and sell their stock. Two lines of buying and selling in the exchange are now ready for operation. Mr. Lee Divine will handle the hog feeder buying and Mr. E. M. Clark will assist in the buying and selling of grade and purebred dairy cattle. The exchange hopes to be in a position soon to purchase feeder cattle. After these lines are well under way, it is probable that the exchange will act as a medium through which to buy and sell purebred live stock.

This exchange will operate through the eighty-seven County Farm Bureau organizations of the state, and probably similar to their present county exchanges. A monthly bulletin will be issued to all farm bureau offices containing the "for sale wants" of all the state, and it is likely that this list will be advertised. The "for sales and wants" will come to the I. A. A. office and the exchange will act as a clearing house. It is the plan to charge enough for this service to make it self-supporting.

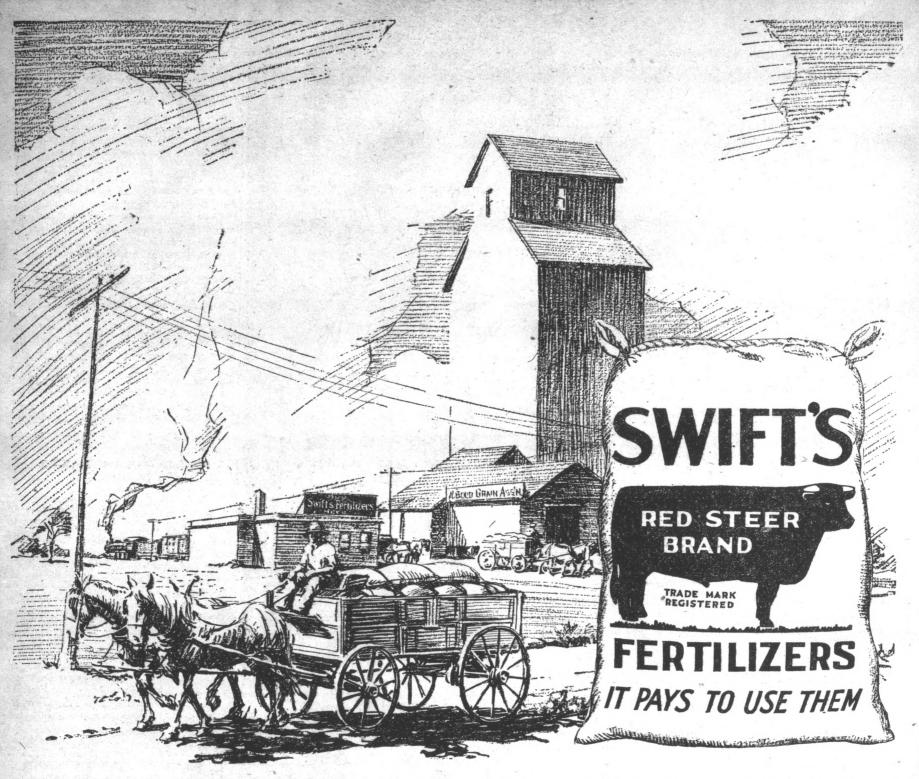
AMERICAN FARM BUREAU EXECU-TIVE MEETING.

WO outstanding developments of the quarterly executive committee meeting of the American Farm Bureau Federation held in Denver last week were decisions to attempt to make sure that any revision of national taxation laws, as is contemplated, does not shift a greater burden from industrial interests to the public and the creation of a traffic department. Both are subjects of vital interest to the thousands of farm bureau members of the various states.

The decision on taxation followed a review of agitation, which has been inspired by some industrial interests, for repeal of the present excess profits tax, which takes from net earnings of corporations and other businesses forty per cent of all profits in excess of twenty per cent net profit upon investment. This tax last year raised for the government almost two billion dollars. Several substitutes have been suggested but all would operate to shift this tax burden in a more or less degree to the individual consumers.

The American Farm Bureau Federation's idea is that the big tax burden of the countryside should be borne largely by the interest most able to pay and should not be paid out of the living wage which is all that the individual consumer has. It is also contended that the excess profits tax has not "crippled" business to any discernible extent and that it seems a conservative tax, when it is considered that Great Britain levies a similar tax of sixty per cent instead of forty. Prof. T. S. Adams, of Yale University, and chairman of the United States Treasury Department Advisory Board on taxation during the war, outlined the present problems of administration of national taxes.

The decision to organize a traffic department immediately was influenced largely by a comprehensive report on difficulties in the movement of farm products to market made by Clifford Thorne, of Chicago, a national authority on transportation matters. It is intended that this department keep closely informed as to car requirements of various agricultural regions, rate situations and kindred matters, and work with the different State Farm Bureaus in improvement of transportation conditions that the last few years have cost the farms of the country millions of dollars.



There's still time to fertilize

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One or more of these factories is located at an advantageous railroad shipping point near you—ready to give you prompt service.

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Remember that one acre fertilized is generally good for more profit than two acres without fertilizer. And it's the heavy application that pays the farmer the biggest profit.

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Brands specially recommended

We recommend the brands given below as the most profitable to use under general farming conditions.

Analysis

.A	mmonia	Phosphoric	Acid Potasi
Swift's Champion Wand Corn Grower	heat 2	12	2
Swift's Clay Soil Special	2	12	0
Swift's 12-2 Fertilize	er 0	12	2
Swift's High Grade A Phosphate Fertilizer		16	0

AMMONIA gives the plant a quick start, particularly necessary when seeding is delayed to combat the fly, increases vegetative growth, and aids in stooling.

PHOSPHORIC

increases root growth, aids in stooling, plumps the berry and hastens maturity.

POTASH stiffens the straw and aids in starch

Select from the above list the brand best suited to your requirements. Other brands on request, REMEMBER-The higher the analysis, the cheaper the plant food per pound.

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DEALERS: Ask for Proposition

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THE READY RATION FOR DAIRY COWS

Long-lived Purebred Holstein Cows

Leave out of consideration the greater Leave out of consideration the greater direct cash return and Holsteins are still the best investment you can make. Great strength and constitutional vigor make the typical Holstein long-lived, free from disease and sure to produce many healthy calves. A thirteen-year-old Holstein owned by the Kansas Agricultural College finished a year's record of 15,773 pounds of milk and 513 pounds of butterfat. This record indicates the dollars and cents value of Holstein vitality.

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OUR HERD SIRE Model King Segis Glista

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

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

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

Registered Holstein cows and heifers due to freshen this fall. Some bred to a 42 lb. bull. Price \$200 to \$400 each.

B. B. REAVEY. Akron, Mich.

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

"TOP NOTCH"

HOLSTEINS McPHERSON FARMS COMPANY

has raised many great 1 Officially Produced

BULL CALVES FOR SALE

From dams with good records.
BULL CALVES SIRED BY 45 lb. BULL.
BULL CALVES SIRED BY 34 lb. BULL.
BULL CALVES SIRED BY 33 lb. BULL.
PRICES VERY REASONABLE.

Privelege of return if not satisfied.

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

CLUNY STOCK

A Semi-Official Bred Bull to Head Your Head

Maplecrest Application Pontiac No.132652, heads
Our Herd
His dam's record is 1344.3 lbs. butter 23,421.2
lbs. milk in 365 days. and 35.103 lbs. butter and
515'6 lbs. milk in 7 days.
One of his sons from our good record dams will
carry these great blood lines into Your Herd.
For Pedigrees and Prices write to

R. Bruce McPherson, Howell, Mich.

Holsteins of Quality for sale, Heifers from 8 to 24 monts old. All registered and sold subject to tuberculin test.
E. A. HARDY, Rochester, Mich

The Traverse Herd

Guarantee

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.

Increase the Efficiency

DAIRY HERD

by using a

Registered Holstein Sire We have bulls of all ages listed at rea-

sonable prices.
Also grade and pure-bred cows and heifers.

Michigan Holstein-Friesian Asso. Old State Block, Lansing, Mich.

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

HEREFORD

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

ALLEN BROS. PAW PAW, MICHIGAN

Herefords. Just purchased 3 new herds, now have 150 head; we offer you anything desired either sex, horned or poiled, any age. Priced reasonable.

THE McCARTYS, Bad Axe, Mich.

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

ARE CONDENSARIES MAKING FILLED CONDENSED MILK?

HETHER or not there are any real facts available to support the contention of cheese and butter manufacturers in certain sections of the country, rumors have become quite pronounced of late that certain milk condensaries are making a filled condensed milk. Those who are familiar with the agitation of several years ago when it was discovered that many manufacturers of cheese were-making a filled cheese undoubtedly will understand the meaning of filled condensed milk and no further elaboration on the subject would be necessary so far as they are concerned. However, it may be well to state that a filled cheese is one made from milk wholly or partially skimmed to which is added certain foreign fats, usually of vegetable origin, thus bringing the percentage of fat content up to normal. Reports supposed to be authentic claim that in the condensaries alluded to, a practice is in vogue whereby the butterfat is removed from the milk and cocoanut oil is substituted. As there are laws in most states prohibiting the use of foreign fats in the manufacture of butter and cheese, the manufacturers of those products are up in arms against allowing the practice in condensaries.-L.

POLAND CHINA BREEDERS ACTIVE.

(Continued from page 255). in Michigan, and it is due largely to his untiring efforts that the breeders in his territory are pulling together to buy better breeding stock and build up their herds to a point where they can compete successfully with those from other states. A few men have seen the light and more must see it when they visit these sales and compare the difference in the bids for animals of the improved type and those of the "chuffy," compact type.

The Boone-Hill Company have gone in strong for the great big-boned type with four good legs and plenty of light underneath. Prominent among the firm's offerings are Bouncer Giantess, a daughter of Disher's Giant and out of Disher's Bride, a daughter of Big



Brood Sow Owned by Wesley Hile.

Wanderer. Another sow of approved type and proven prolificacy is Boone's Mollie Buster, a daughter of Great Big Half Ton, and out of Mollie Buster. Two of her boar pigs listed in the sale are sure to attract the attention of buyers when they enter the sales ring. A majority of the gilts offered in the sale are daughters of Monster Big Bob and C. A. King Joe. Monster Big Bob is a son of Lucken's Big Bob and out of Bob's Queen. He was bred by Linc Luckens, of Indiana, and is generally recognized as one of the best Poland China sires in Michigan. C. A. King Joe is a son of Big Joe and out of Monarchia 3. He was bred by W. B. Wallace, of Missouri. For a Junior herd sire they have The Eminent Clansman, a son of Clansman Again and out of Miss Jumbo I. All of the animals in this herd are in good breeding condition and no effort has been spared to put up individuals that will insure the success of the sale.

No city in the nation is removed from starvation more than two weeks.—Asbury F. Lever.

LIVE STOCK COMMISSION MEN IN DILEMMA.

IVE stock commission men find themselves placed in the prover bial position between the devil and the deep blue sea. In 1919 the legislature of Minnesota gave the state railroad warehouse commission authority to regulate the charges of live stock com mission merchants. The commission proceeded to exercise its authority by lowering the prevailing rates. The commission men took the case to the courts, alleging that the order was invalid, first because the commission men were then under regulation by the federal government, and second because the act was unconstitutional. The court has just decided the case in favor of the live stock commission men solely on the grounds of the first objection. Now, Secretary of Agriculture Meredith has used the federal power to order the cancellation of the commission charge increases recently put into effect and to reduce the charges for handling carloads belonging to several different owners. At first these orders were fought by the commission men on the ground that they were not really under federal regulation, but the decision in the Minnesota case seems to close that avenue of escape.

It was reported late last week that an injunction had been issued at Kansas City restraining the government officials from revoking licenses of commission merchants under the secretary's order until after September 18. Such a restraining order is being sought but one of the government officials involved has just stated to the writer that he has not yet been served

with the order.

The commission men who so blandly raised their charges in the face of the known losses of most live stock producers during the preceding year might have expected trouble. Commission men cannot permanently work at a loss and farmers will not object to justifiable increases, but the method of the commission men was not concil iatory, and the time chosen for the boost of about thirty-three and a third per cent in their rates was certainly most inopportune.

WHEN A HEDGE DOES NOT PRO-TECT.

FARMERS are supposed to derive benefit from dealing in grain for future delivery on boards of trade and chambers of commerce through the opportunity it affords the operators of elevators, shippers, exporters and others who engage in the merchandising of grain, to hedge their purchases or sales. Supposedly, this eliminates the risks of ownership and enables the purchaser at the country loading point to pay the farmer a price nearer the central market price than he could pay if he had to assume the risk of market changes between the time of purchase and the time of arrival at the terminal.

Since trading in wheat has been resumed, the speculative interests have held such bearish views that the prices of the grain futures have been considerably below those in the cash market. The result is a widening of the spread between the farm price and the terminal market price. Farmers in the northwest who are obliged to deal through privately owned elevators are selling their wheat on the basis of a price for December delivery at Minneapolis less the freight and handling apolis less the freight and handling charges. The cash grain is twelve or fifteen cents higher than the December. It is doubtful if the margin would be any greater if there were no hedging facilities whatever. The alleged benefits of speculation are not evident in this instance. The opportunity to hedge may protect the elevator operator but it does not protect the farmer. Growers in the northwest may be suffering more than any others but all fering more than any others, but all farmers who are selling wheat are af-fected in a greater or less degree.

vering full Power from Your Fordson The supreme duty of the tractor belt for your Fordson is to deliver in the greatest degree the full power of the tractor motor to the belt A considerable wastage of power through slippage, often leads the Fordson owner to imagine his tractor is not developing its rated horse-power. But the Little Giant tractor belt, because it eliminates all this wastage, has been specially designed for the Fordson. First, it is designed to maintain a clinging grip on the pulley, because the slip-proof belt not only prevents loss of power through slippage, but also the serious wear to the belt that slipping causes. Second, it is built to withstand the effects of rain, snow, heat, cold and the abuse that every farm tractor belt must meet. It is an endless canvas belt, made of four folds of a single piece of highest grade, heaviest weight canvas duck, stitched as a belt has never been stitched before, and specially treated to give increased toughness and wearability. Double stitching at the edges, an exclusive feature of this belt, eliminates edge wear. Your Fordson dealer has a stock of Little Giant belts in three lengths-50 ft., 75 ft. and 100 ft. If you are buying a Fordson, get a Little Giant belt at the same time-if you are now a Fordson owner, insure your tractor's maximum performance on the belt by using a Little Giant. **United States Rubber Company** Distributed by S. W. RAYMOND AUTO SALES CO., Adrian, Mich. ADDISON FORD CO., Dearborn, Mich. HUBBELL AUTO CO., Saginaw, Mich. E. G. KINGSFORD, Iron Mountain, Mich.

Auction Sale Of Holsteins Sept. 8 1920, Sale at 1 P. M. Sharp

Segis and Pontiac Breeding
Herd headed by Almer Dunbar Segis No. 240348. Great grand son of Colantha Johanna Lad. 13 head of Reg. and grade females, 5 fresh in Aug. and Sept. George H. Landenberger, 3/4 Mile North of Williamston, Mich.

SOWS FOR

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

J. CARL JEWETT, R. 5, Mason, Michigan.

HEREFORDS

D. S. Polled Herefords
Herd headed by Renner Bullion, 815833, (18242) son of
grand champion Bullion 4th.

r Sale—A few good polled and horned cows bred to s great bull. Also three fine bull calves not ated to him. Correspondence solicited. Cole & Gardner, Hudson, 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
FOR SALE
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.

LILLIE Farmstead Jerseys—A few heifers bred to freshen soon, heifers bred to freshen next fall, 3 cows, R.of M.bull calves. C.C.Lillie, Coopersville, Mich.

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

For Sale. Jersey bull ready for service sired by Flying Foxe's Gay Lad. Dam record 472,5 lbs. butter 8675 lbs. milk. 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 solling good Soutch and Soutch topped yearlings, reasonably priced. A roam, senior yearling, a Missie of Villages breeding, a head bull prospect, Fedoral Test.

BIDWELL STOCK FARM. Tecumseh, Michigan

St. Joseph Valley Shorthorn Ass'n has males of all ages and best breeding.

AARON HAGENBUCH, Sec-trees. Three Rivers, Mich

We Now Have

For sale by all authorized Fordson Dealers

number of choicely bred scotch females of any ge for sale also three buils from 6 to 18 months old, isit our herd before buying. Sold 5 calves for \$5400. OARR BROS., & OO., Bad Axe, Mich.

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 Chicago oct. 28th.

C. H. PRESCOTT & SONS,

Tawas, City, Mich.

Shorthorns New list 39 bulls, 49 females. Cen-tral Mich. Shorthorn Asso. write OSCAR SKINNER, Sec., Gowen, Mich.

Shorthorns Scotch and Scotch Topped Sultan Champion heads herd, one scotch two yr. old herd bull by Red Cumberland priced right.

H. J. FLOWER & SON, Milo, Mich.

Milking SHORTHORPS. Clay bred bull calves Herds under Federal Supervision. Davidson & Hall, Beland & Beland, Tecumseh, Mich.

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

MEADOW Hills Shorthorns. Herd headed by Sil-wer King, full brother of Lavender Sultan Pur-due University's great sire. For sale females of all ages, a few young bulls. Geo. D. Doster, Doster, 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 for sale. ARTHUR DODDS, Lapee

Shorthorn Bulls Eight to ten months old of Scotch and Scotch Topped breeding. Lawrence P. Otto, Charlotte, Mich.

SHORTHORNS—Imp. Mysic Prince in service bred by J. Durno, sire bred by Wm. Duthic. Stock for sale. J. A. BARNUM, Union City, Mich.

Feed Every 3rd Hog

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

Milkoline has a base of pasteurized and sterilized, modified Buttermilk. It is guaranteed not to con-tain 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 Milkoline 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 Professor W. while Ass'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 Middletown, Mo., said \$30 worth of Milkoline made him an extra profit of \$420. Lee Jackson of Wappingers Falls, N. Y., says Milkoline fixed up a bunch of shoats in fine style and is great for brood sows.

Can't Spoils 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; 55 gal. \$12.50; 15 gal. \$12.50; 55 gal. \$20.50; 55 gal. \$12.50; 50 gal. \$12.50

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 en request—your name on a card will de.

Saginaw, Mich.

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

For Sale 4 registered Shorthorn cows. 3 to freshen B. W. MARSHALL, Oakland Co. Highland, 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 mo. old for sale.
FRANK KEBLER, R. 1, Grand Ledge, Mich.

Steers For Sale Several bunches of good stock ers and feeders weighing from 650 to 1050 lbs. Each bunch even in size and color write 50 to 1050 lbs. Each bunch even in size and cook at once stating your wants.

W. W. DYER, Ottumwa, Iowa

HOGS

Berkshires size with quality is our special ty. Write your wants to M. G. MOSHER & SONS, Osseo, Mich

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

Brookwater Duroc Jerseys

FOR SALE **Bred Gilts of Choice Breeding**

A few good ones left. This is your opportunity to ROCK BOTTOM PRICES

-also-READY FOR SERVICE BOARS Visit the exhibit of Brookwater Jerseys and Duroc Jerseys at the Michigan State Fair, Detroit, Sept. 3-12. COME TO FARM OR WRITE—MAIL ORDERS A SPECIALTY

BROOKWATER FARM

ANN ARBOR, MICH. ford, Owner, J. B. Andrews, Mgr. H. W. Mumford, Owner,

DUROCS WITH COLALIN

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

Phillips Bros, Riga, Mich.

DUROC JERSEY SWINE

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

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

NEWTON BARNHART, St. Johns, Mich.

OAKWOOD FARM DUROCS We can furnish you with anything from a weanling pig to a boar of herd heading caliber at reasonable prices. Your inspection and correspondence is solicited. 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 \$10,000.00 champion Jacks Orion King 2nd. All large type, heavy bone gits, 250 to 300 lbs. THE JENNINGS FAR. 18, R. 1, Bailey. Mich

Duroc Boars and Gilts

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

Write Me at once I have just what you want heavy bone registered Duroc Jersey boars ready for service. W. H. MAYES, L. B. 505, Durand, Mich.

Duroc Jerseys of the right type, good blood at a price you can afford to pay. Guaranteed to sult rou. W. E. Bartley, Alma, Mich.

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

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

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

Big Type Chester Whites, Choice, stretchy spring boars, also tried sows and fall gilts bred for 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. Mackinaw, Tazewell Co. Ill

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

O. 1. C. BOARS, boars. Write for breeding and prices. We ship C.O. D. and reg. free.

GEO. M. WELTON & SON, Alto. 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.



HAVE started thousands of breeders on the road to success. I can help you. I want to place one hog from great herd in every community where I am not already repmenths old. Write for my plan- More Money from Hogs.

G. S. BENSAMIN, R. F. D. 10, Portland, Michiga

The World's Champion

big type O.I.C's. Stock of all ages for sale. Herd headed by Calloway Edd, the World's Champion O.I.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, Coral, Mich. Sales Mgr.

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

O. I. C. Gilts bred for Sept. farrow and spring pigs.
F. C. BURGESS, R. 3, Mason, Mich. O. I. C's Eight young boars and spring pigs CLOVER LEAF STOCK FARM, Monroe, Mich.

O. I. C.'s Booking orders for Spring pigs, we register free and ship C. O. D. A. J. BARKER & SON, Belmont Mich. O. I. C's. 5 last fall boars and 15 last fall gilts bred for Also this pring bigs not akin. ½ mile west of depot. Otizens phone 124. Otto B. Schulze, Nashville, 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 about a half acre less row, weighing 225 lbs. for \$60, spring pigs all sold, guarantee satisfaction. DORUS HOVER, Akron, Mich. fall than in the spring.

SHIPPERS OF LIVE STOCK MAKE PROTESTS.

A T the annual meeting of the managers of the cooperative live stock shipping associations of Michigan, at Lansing on August 19-20, a most emphatic protest against the unjust advance in commisison rates for selling live stock, was voted. A further protest was made against the adoption of a car partition for live stock shipping, that is calculated, to all appearances, to be for financial gain to the promoter rather than for rendering service to the shippers.

In this connection State Manager Compson impressed upon the managers the necessity for all the associations using the partition gate adopted by the exchange for the reason that such use would stimulate a strong influence with the railroad officials when they once understood its advantages.

Secretary Willets explained the relations between the local associations and the state exchange. In his report he stated that to date eighty of the two hundred local associations of the state have become members of the exchange.

Producers are being called upon to suffer unusually heavy losses in the large number of animals killed and crippled before they are sold at the stock yards. Mr. Cruikshank and ofhers have observed that the largest per cent of deaths and cripples occurred after the stock is unloaded at the terminals. The sentiment was strong in favor of a campaign looking toward the reduction of these casualties. To this end Manager Compson was requested to interview superintendents of stock yards'urging these officials to use their authority in compelling a more humane handling of stock at the terminals.

The question of a contract agreement proved exceedingly interesting and showed a decided sentiment in favor of conducting the sales work on a definite contract basis. The discussions were comprehensive and favored the use of contracts which would oblige all members to sell their surplus stock through their local associations and the local associations to dispose of their offerings through the state exchange. A resolution was passed requesting the directors of the Michigan Live Stock Exchange to draft a contract for tieing up members to the local associations and to submit this contract to the various locals for consideration. Professor Tenant, of the Extension Department of M. A. C. made an earnest appeal advising the use of the contract agreement and suggested further the organization of a commission firm to handle the farmers' live stock offerings.

In the matter of extension work the association went on record as favoring state aid in assisting Manager Compson in his work of affiliating the various local organizations. The directors of the exchange were also asked to arrange for district meetings, and if found advisable, a general meeting to be called after the local meetings and before the regular annual meeting of the association.

Although the managers of these associations have many local and general problems to work out, there was a real optimistic tone to their reports and a general feeling that the cooper live stock shipping business will soon be entirely in the hands of the farmers and their agents.

The greater number of four-horse teams and even some five-horse teams on fourteen-inch sulky plows for fall plowing is accounted for by the fact that plowing in the fall is usually about one inch deeper than in the spring, and also by the fact that the ground is generally dry and hard to turn. On an average, outfits of the same size cover about a half acre less per day in the



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

Big Type Poland Chinas with quality, at re-of both sex, and bred sows and gilts. G. A. BAUMGARDNER, R.2. Middleville, Mich.

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Large Type Poland China's. Everything immuned by double treatment. Meet me at Detroit, or Jackson Fairs. A. A. Feldkamp, R. 2, Manchester, Mich.

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All bred gilts sold. Now booking orders for gilts bred for fall farrow, and pigs for pig club work only. Depow 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.

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KON FARMS, S. L. Wing, Propr. Coldwater, Mich.
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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.

SHROPSHIRES Yearling and Lamb rams ed 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.

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Registered Rams all ages. Bredifor size, type, quality. Sire at head of flock, I S. C. No. 22483. Half brother to the Grand Champion ewe at International 1918, Bred by Iowa State College. Also a few good ewes. W. W. GASLER, Ovid, Mich.

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

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

POLAND CHINA BREEDERS HOLD PICNIC.

THE first annual picnic of the mem-bers of the Central Michigan Poland China Breeders' Association, their families and friends, was recently held at Crystal Lake, Montcalm county. The address of N. M. Wiles, of Indiana, was the feature of the occasion. He pointed out the unusual possibilities for the production of hogs here in Michigan. To him the future of the business is promising. He emphasized the fact that Michigan as an agricultural state has not been advertised and as a result uninformed farmers of other states think of it as composed of sand dunes. A survey of the land discloses, however, large sections with as high grade soil as may be found anywhere in Ohio, Indiana, Illinois or

The organization is growing. The membership has doubled since last spring. The first sale circuit ever held in Michigan will occur in October when five firms will sell registered Poland China stock. The purpose of organizing the members is to encourage the keeping of better hogs and to promote public sales of this particular breed, as well as to advance the interests of the breed throughout the state.

CONDUCTED BY DR. W. C. FAIR.

Surfeit Sores.—Several of my horses are breaking out in small sores. Whatever the ailment is it causes itchiness. C. B., Bitely, Mich.—Dissolve ¼ lb. hyposulphite of soda in one gallon of water and wet sore and itchy parts of body once or twice a day. Give each horse half an ounce of Fowler's solution of arsenic in feed or water two or three times a day. Every one of the horses should be washed with soap and water twice a week.

Abortion.—I have a two-year-old heif-

Abortion.-I have a two-year-old heif-Abortion.—I have a two-year-old heifer that was due to freshen this coming October, but a day or two ago she lost her calf. She seems to be in good health, but has not yet cleaned. I have been feeding her a tonic which seemingly failed to do her much good. M. A. C., Marcellus, Mich.—Dissolve I dr. of permanganate of potash in one gallon of tepid water and wash out vagina daily; use a fountain syringe. She should not be bred until vaginal discharge ceases. discharge ceases.

Rheumatism.—I have a cow that first went lame in one hind leg then after a time she got over it, but soon showed lameness in the other hind leg; now she is stiff in hind quarters. C. H., Marion, Mich.—Give her 1 dr. doses of sodium salicylate in feed three times a day

Garget.—Have a cow that is troubled with garget; she gives stringy milk; the last milk drawn is mixed with blood. She runs on pasture day and night. G. S. L., Fenton, Mich.— Give her ½-oz. of fluid extract of poke at a dose three times a day. Apply one part extract of belladonna and nine parts olive oil to congested part of udder every day or two.

Small Worms.—My seven-year-old mare is troubled with small worms in rectum. She frequently passes a form

rectum. She frequently passes a few. What shall I do for her? E. T., Roscommon, Mich.—First wash out rectum with tepid water, then use one part coal tar disinfectant and fifty parts water. She should be treated three times a week

Swollen Throat.-My three-year-old heifer is troubled with swelling in the throat. She runs on river bottom land. L. G., Harford, Mich.—Apply one part iodine and eight parts fresh lard to throat three times a week. Give her a teaspoonful of acetate of potash in water twice a day. water twice a day.

HISTORY OF 1919 INTERNATIONAL

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GRAIN QUOTATIONS

September 1, 1920. Wheat.

Detroit.—Cash No. 1 red, \$2.54; December \$2.36; March \$2.32; No. 1 white and No. 1 mixed \$2.52:
Chicago.—No. 2 red \$2.51½ @2.53;
December \$2.34¼; March \$2.30¼.

Prices ar

Corn.

Detroit—Cash No. 2 mixed \$1.65; No. 2 yellow \$1.70. Chicago.—No. 1 mixed \$1.50@1.52; No. 1 yellow \$1.50@1.54.

Detroit.—Cash No. 2 white 77c; No. white 76c; No. 4 white 75c, Chicago.—No. 2 white 68@70%c; No. 3 white 66@68 1/2 c.

Beans.

Detroit.—Immediate and prompt at \$6 per cwt. Chicago.—Hand-picked fancy \$6.75. choice

New York.—Choice pea \$7.50.

Rye.

Detroit.—Cash No. 2 \$1.97.

Seeds.

Detroit.—Prime red clover, spot, October \$18;; December \$18.50; alsike \$18.50; timothy \$4.25.
Toledo.—Prime cash \$18; October \$18.65; December \$18.45; alsike \$18;

timothy \$4.

WHEAT

It is claimed that the United States will have cleared around 70,000,000 bushels of wheat by September 1, and that additional sales for export total an equal amount. This means that about 140,000,000 bushels of our exportable surplus of around 275,000,000 bushels have already been placed. So far this season the clearances for export have exceeded the rate of arrival at primary markets. Importing countries must rely largely upon North America for their supplies until Janu-America for their supplies until January and the present rate of movement ary and the present rate of movement is the result. Immense sales were made for export some time ago, and the sellers are trying to secure the cash open Labor Day, Sept. 6.

Cattle. grain which accounts for the sharp up-turn recently with Chicago in the lead. Premiums advanced the past week to the highest basis on the crop at Chi-cago and in the southwest. The Britcago and in the southwest. The British commission remains out of the marset commission remains out of the market and seems to be speculating on the outcome of the southern hemisphere crop. Canadian wheat is now being offered for export at lower prices than the domestic. Rye finds ready takers but there is no stock of consequence at terminal markets and receipts find a good market. Barley shows more good market. Barley shows more firmness, due to limited receipts.

CORN

While there has been more or less damage to corn as the result of dry weather, recent rains were highly beneficial, and the great need now is for hot dry weather to force the crop along to maturity so that it will escape kill-ing frost. Some damage has been done by frost Some damage has been done by frost already in extreme western Nebraska, which is a range country, and in parts of North Dakota. The government report as of September 1 is expected to show a condition somewhat lower than that of last month, but a yield in excess of the 3,003,000,-000 bushels reported at that time. Old corn is commencing to move more freecorn is commedity, as threshing is product of the new freight rates are ded. The new freight

whole, farmers show a decided disposition to bin as much oats as possible rye straw \$12.50@13. and sell the surplus. Export demand is very slow, with foreign sorts offered materially below those from this

SEEDS

Prices are now about half what they were at the high time last winter. The recent break has been brought practically to a standstill, prices showing but little change compared with a week

FEED AND HAY

The gradual reduction in numbers of live stock on farms, the slump in cotton and the reduction of lumber operations are subtle influences making for low prices on hay and feedstuffs. And at furthermore, all sections of the coun-try seem to be blessed with an abund-to ance of forage. The car shortage, however, will be a counteracting influence in maintaining prices, especially for hay. The markets have gone through a severe slump and it is doubtful if quotations will go much below their re-cent low point. Another sharp advance featured the market for feedstuffs the past week. Quotations on feedstuffs per ton in 100-lb. bags in carlots are: Milwaukee—Bran \$45@46; standard middlings \$56.50@57; flour middlings \$61@62; red dog flour \$74; hominy feed \$64; old process linseed meal \$64

Detroit—Bran \$53; standard middlings \$69; cracked flour, middlings at \$72.50. Prices for hay and straw at Detroit are: Timothy, No. 1 \$33.50@34; standard \$32.50@33.50; No. 2 \$31.50

BUTTER

With light supplies of fine butter arriving on the markets, and consump-tive demand still good there was a litthe improvement in prices the past week and the tone was fairly firm for the top grades and all butter of table quality. Undergrades alone are very hard to move, even with quoted prices on the lower scores approximately ten cents cheaper per pound than fine butter. Never has quality been better rewarded than at the present time. One cargo of Danish of 1,900 casks arrived at New York during the week. The at New York during the week. The net gain in prices for the week was about a half cent, but the closing tone on the larger markets was a little topheavy. Closing price of ninety-two score butter at New York was 57c; at Chicago 55¼c; at Boston 58c, and at Philadelphia 58c.

EGGS AND POULTRY

Receipts of eggs at the principal cities are running somewhat behind those of last year but are about equal to the average of the last three years. Stor-40@44c.

POTATOES

34; standard \$32.50@33.50; No. 2 \$31.50 The general tone of the market for @32; light mixed \$32.50@33; No. 1 the past week has been steady, with mixed \$31.50@32; No. 1 clover \$29@ moderate to good demand. Trade is

gradually turning from barreled to sacked and bulk stock as the eastern barreled supply is usually marketed by this time. Northern shipments are increasing steadily, Wisconsin and Michigan having started carlot shipments and the total for the United States is also increasing. Chicago—Barreled cobblers \$5.25; Minnesota Early Ohios \$2.75@2.90.

Detroit—Barreled Virginia

Detroit-Barreled Virginias, No. 1, \$5@5.50.

PEACHES.

A firmer tone has existed this week, particularly for Illinois Elbertas, which closed at \$4@4.25 per bushel at Chicago. Detroit—Georgia \$3.50@4 per bu.

APPLES

A large amount of bulk stock is arriving, due apparently to high prices of containers. Chicago—Duchess in bulk \$2.15; Transparents, fancy stock, bushel baskets \$1.75@2. Detroit—Michigan \$1@1.50 per bushel.

WOOL

A very slight increase in activity in wool circles was perceptible last week. Observers close to the trade believe that the market will open up soon upsome extent. Prices are gradually on a moderate price basis. A few sales creeping higher. Poultry prices were easier the past week. Quotations at been made. The managers of the Michtle week's close were as follows: Detroit—Eggs No. 1 fresh rehandled 49c from 35@67½c for part of their supasked; storage packed extras 49½c; ply. The British auctions have been live poultry, spring chickens 33@40c; neewed, with the fine wools in stronghens 33@37c; roosters 20@22c; weese est demand at a price somewhat heartish government have est demand at a price somewhat heart-ening to American growers. The Brit-ish government has made public its holdings on June 20, 1920, including stocks in Australia, Boston and Ant-werp as well as the United Kingdom. The total is 2,905,554 bales, or about 958,650,000 pounds. Quotations are largely nominal largely nominal.

DETROIT CITY MARKET

There is a good supply of products, with the demand fair. Quotations are: Apples, fancy \$2@2:50; firsts \$1.50@1.75; cabbage 40@50c; crab apples at \$2.50@3.50; cucumbers, large 75c@\$1; do dill \$2@3; do pickles \$4@6; corn 90c@\$1.25 per 4@7 dozen; dry onions \$1.75@2; peaches at \$4.50@5; pears \$2.50@4; plums \$2.50@4.50; potatoes \$1.75@2; tomatoes \$1.25@2; turnips \$1@1.25. nips \$1@1.25.

COMING LIVE STOCK SALES.

Holsteins—September 8, George H. Landenburger, Williamston, Mich. Poland-Chinas, Oct. 26, Wesley Hile, Ionia, Mich.

Big Type Poland-China Sale Circuit in Central Michigan, October 26-30.

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We have a good demand for fancy fresh eggs and will pay you 57c per dozen, delivered Detroit, cases included for express shipments strictly new laid eggs shipped direct by at what they are worth. This price good for week ending September 11th, 120, AMERICAN BUTTER & OHEESE COMPANY, Detroit, Mich.

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FGGS, Etc.—Small consignments from very attractive prices NOW Prompt returns always. Refer to Dun or Bradstreet, ship us your next case. ZENTIH BUTTER & EGG CO., 170 Duane St.. New York, N. Y

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5.00@ 5.25 4.00@ 4.75 7.50@ 8.50 6.00@ 7.00 Cutters Canners Stock bulls Stockers Milkers and springers....\$

Veal Calves. Receipts 400. Market strong. Prospects lower. Best\$19.00@20.00

Others Hogs.
Receipts 1500. Market 7.00@16.00 steady. Mixed hogs and yorkers, \$16.25. Pigs\$ Heavies 16.00 15.50 13.00 Rough Stags 8.00@10.00

Sheep and Lambs. 8.00

Surplus oats are leaving the farms choice, \$15.20@16.10; light 150 to 200 lbs, common, medium, good and choice, searcity of cars tends to restrict restrict results. Many country elevators are lbs, common, medium, good and choice, full. It is expected, however, that the car situation will show gradual improvement, and that after September sows 200 lbs up, rough, \$13.95@14.15; label and that after September sows 200 lbs up, rough, \$13.95@14.15; leaving lines, \$10@10.50; weathers, \$8.50@9; label and the efficiency of the railroads. As a choice, \$13.70@15.75.

cows, common, medium good and choice, \$6@12.75; bulls, bologna and 4.00@ 4.75 choice, \$6@12.75; bulls, bologna and 7.50@ 8.50 beef, \$5@11.50; canners and cutters, 6.00@ 7.00 cows and heifers, \$4@6; do canner 5.50@ 5.75 steers, \$4.50@7.50; veal calves, light 9.00@10.00 and handyweight, medium, good and 7.00@ 9.00 choice, \$15@17.50; feeder steers, com-75@ 140 mon, medium, good and choice, \$7.50@ 12.25; stocker steers, common, medium ong. Pros. and good and choice, \$5.50@10.50; and good and choice, \$5.50@10.50; stocker cows and heifers, common medium, good and choice, \$5@9; western range cattle, beef steers, medium, good and choice, \$9.75@15; do cows and heifers, medium, good and choice, \$7.50 @10.50.

Sheep and Lambs.

Estimated receipts today, 33,000; killing prices, 25@50c lower. Feeders slow to lower.

Lambs 84 lbs. down, medium, good,

Sheep and Lambs.

Receipts 1600. Market very slow.
Bulk of best lambs \$13, and few extra choice at \$13.50. Prospects lower.

Best Lambs.

\$13.00 kmarket very slow.

\$13.00 kmarket ver

BUFFALO Cattle.

Market steady. Best heavy steers, \$11.50@17; butcher steers, \$9@16.50; heifers, \$6@12.50; stock cows, \$9.50@10; heavy cows, \$8.50@9; good, \$7.25@8.25; cutters, \$4.50@5; canners, \$2.50@4.

CATTLE VALUES RISE.

CATTLE receipts have been running lighter than those of a year ago for many weeks, but not till last week did the tonic influence of shortage produce any effect. Practically all classes and grades of cattle shared in the advance in which higher eastern markets and purchases for eastern shipment were a factor. Prime steers advanced twenty-five cents at Chicago, good and choice grades about fifty to seventy-five cents. Cows and heifers, of both the butcher and canner classes, are twenty-five to fifty cents higher. Butcher bulls are a shade higher, and bolognas about steady. Veal calves had a sensational advance, some eastern markets reaching the \$22 level.

Prime cattle are specialties whose values may do anything regardless of the rank and file. The known scarcity of such grades indicates a strong probability that they will work into higher ground during the coming weeks. Packers' buyers are trying to hold down the score, however, and refuse to advance the

ers' buyers are trying to hold down the score, however, and refuse to advance the top as fast as they advance the grades lower down. Good and choice grades of steers are reasonably abundant, the best of the grassers which received corn last winter reaching \$16.50 at Chicago. There is no evidence that the marketing of the southwestern range crop is near completion. While there is no justification for a decline much below the present level it is doubtful if the current week's advance upon such kinds is more than a temporary spurt.

upon such kinds is more than a temporary spurt.

Fireworks can be expected in the veal markets at this season as the price usually reaches its pinnacle some time in September. Growers who can market inside the next three or four weeks will have this normal seasonal tendency in their favor,

DEMAND FOR FEEDERS NOT,

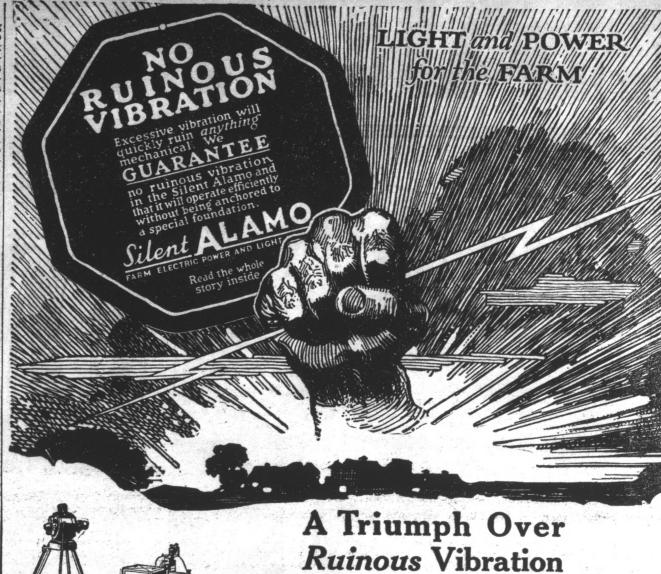
FEEDER buying is not aggressive.
There were few buyers at Kansas
City until the last two or three weeks City until the last two or three weeks and Chicago is mainly dependent upon the Lancaster, Pa., district. Prices are higher than they were two weeks ago, but have made little gain the past week. The cattle-feeding public has not forgotten the experience of last winter. Many will reconsider their decision not to feed again, but it is certain that the number put in feedlots this fall will be less than a year ago. There will be no rush of feeder buying unless frost arrives early. January and February are usually slumpy months, especially in the lower grades of steers. That will be especially true of the coming winter if a lot of frosted corn must be salvaged through cattle. Feeders now are disposed to take mostly the light, cheap grades, the kinds ly the light, cheap grades, the kinds which made money or at least lost but little last winter and spring. Of course each year departs more or less from the average, but usually the finished product from such light cattle does not sell to good advantage before March.

HIGH-TIME HOG PRICES TO PASS

E ASTERN markets seem to have L assumed the price-making role re-cently. Declining markets eastward took the shipper buyers out of west-ern markets, causing the slump of two weeks ago and the rally the past week was preceded by an advance at eastern points which brought shippers to the bargain counter. Hog supplies on farms are sixteen per cent lighter than farms are sixteen per cent lighter than a year ago, but receipts at the markets continue too large for prices to show much buoyancy. Ultimately the effect of the reduction in the hog population will be felt, but there are large stocks of lard and meat on hand and the new crop of hogs will cause a substantial increase in receipts by the first of October or shortly thereafter. No such decline as occurred a year ago is in prospect, but hogs shipped within the next thirty days will find a stronger market than those arriving later on.

SHARP RISE IN LIVE MUTTONS.

S HEEP growers are hoping that the long slump ended as suggested a week ago and a rise of \$1.50@1.75 on lambs, slightly less on yearlings, and about fifty cents on matured sheep from the low point has been recorded. The dressed market took a decided turn for the better, Philadelphia advancing \$3 @5 per hundred pounds. There is a belief that the wool market may rally soon and it is now claimed that the imported frozen lamb is not selling well, compelling packers to drop their activities in that field. Should these rumors prove true a more vigoreus tone in the sheep market is certain.



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Farms and Farm Lands For Sale Continued from Page 266

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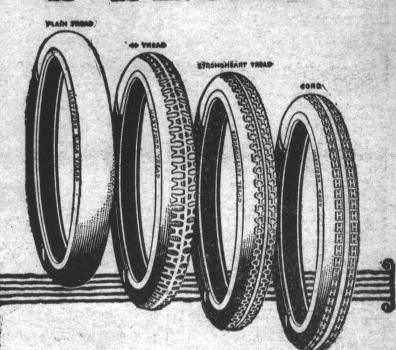
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