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DETROIT, AUGUST 7, 1920

CURRENT COMMENT

The Official. Test

THERE is probably nothing that has promoted the interest in purebred dairy stock so much as offi-

associations. These tests have brought the good cows of the breeds to the front, and provided means whereby the cattle made great progress before they had official records to guide them in selecting and mating their animals, Breeders of today, however, must center their efforts upon breeding highdairy cattle is reduced to almost a mathematical science. It is interesting to note that official testing has proved the master-key in unlocking the mysterious forces of heredity and putting them to work for mankind.

As purebred dairy cattle increase in numbers two forces are constantly battling for supremacy-one of improvement, the other of deterioration; the the use of accurate records. Official ideals of liberty and equality. testing furnishes accurate records in Fortunately there never was a time such reliable form that the new breed- when so many people were stirred to use them as a basis of selection in pur-world movement has met with a most It is at once fundamental and everfrom year to year.

pose of his surplus bulls at remunerative prices, and often, far too often, through the maze of perplexities; class utmost. Because these things are true,
the appears willing to sacrifice his profits from that source while he is rearits from that source while he is reasits from that source while he is rearits from that tions that buyers of purebred stock now offered freely and at this moment cial fertilizers. prefer animals from the herds of men there are millions of citizens who seem

the breeding world. Of course, well- those growing out of social life. known breeders have an advantage in The Lawrence Publishing Co. selling bull calves at advanced prices, tions are to be faithful to their respondences. Fertile fields are not only on the records made by the old estab- level. lished breeder.

Failure to recognize the value of official testing as a complement to the business of breeding and selling registered dairy cattle is proving a stumbling block to more than one man's progress. When prospective buyers of ducted by the four leading dairy breed gree unsupported by official records, in any community constitutes merely tical experiences of thousands of producted by the four leading dairy breed gree unsupported by official records, in any community constitutes merely tical experiences of thousands of producted by the four leading dairy breed gree unsupported by official records, in any community constitutes merely tical experiences of thousands of producted by the four leading dairy breed gree unsupported by official records. but they add to the value of all the cerned. calves she has ever produced and all official test.

> Extending the Golden Rule

ers, the later in the hands of unskillful of the social problem. There is not great cause of cooperation will ultibreeders. In the conflict between only given to this generation the mis- mately win. These men are so anxthese contending forces the gulf is sion of dealing with the social question ious to bring victory that they are constantly widening until on the one but it has to a very large degree a willing to labor and sacrifice to gain hand some of the animals of the breed distinct consciousness of the responsi- the end. From these observations of are no better than scrub cattle. while bility. In spite of all the extraordinary students the other forces are progressing along achievements of the immediate dec-study of the effect of cooperative orwell defined lines. As the herd is be ades—the mighty combination of poli-ganizations on individuals and on the er and his entire staff at Adrianople. well defined lines. As the fierd is destates—the mighty combination of poliganizations on individuals and on the which virtually ends Turkish control ing developed it is important that some tical forces, miraculous scientific discommunity life, it is apparent that sucin Thrace.—Eastern states receive prikind of milk and butter-fat records be coveries and transforming business cessful cooperatives furnish the comority in coal shipments in the decision
kept in order that the owner may fosmethods, etc., there is in the heart of munities in which they are located a of the Interstate Commerce Commister and encourage the forces he de- this present time a burning sense of wonderful school for the development sion. sires to perpetuate in the easiest and social maladjustment-a consciousness of character of a high order. most natural way. Such progress is that our economic development is possible in no other way than through somewhat out of line with our social

er as well as the skillful moulder of action by a call to social service as is animal form and function may safely seen today. The great interchurch

There never has been a time, how-sibilities in dealing with this stupen- the foundation for successful crop proviolent outcrosses, developed his best and with discretion. To do this amidst the successful breeding of live tsock. find a ready sale for all the really good ever, that the old enemy of social pro- the essential elements of fertility. Kencourse to pursue in building up a herd the same class together and to develop is essential in raising large strong-bonof purebred dairy cattle. It frequently the spirit of cooperation among those ed animals. happens that some cow of the breed, who are employed at the same kind of - Every person who has enjoyed a few

> Cooperation and Manhood

through

Such records not only add to the value the foundation for the further progress gressive farmers. of the cow as a breeding proposition, of the neighborhood and those con-

weeded out. While breeders of dairy of her descendants for several gener- an intelligent and loyal citizenship in great program of maintaining fertility. ations. It is discouraging, indeed, for a democracy, work in a similar manner Less is heard about substituting and one to invest good money in foundation to develop the members of a real coop- more about supplementing the supply stock, spend years of painstaking work erative enterprise. Here the members of farm manure with the commercial breeding and rearing a herd of high-have a direct privilege bound up with goods. In fact, the great bulk of the developing an improved type rather producing cows, only to discover that a real responsibility, the same that a work along this line goes to show that than increasing production at the pail; at the very time when success should citizen of a state has in his representative soil delights in a mixed diet, that be within his reach that buyers shun tive government. Failure on the part the best and, it now appears, the only his animals because there are one or of the members to understand or to be way to permanently maintain or intwo bad breaks in their line of offi- lieve in the principles of this move- crease the fertility of our farms is by producing cows. With ometal records as a guide the problem of breeding cially tested dams. And this is prement is given as the greatest obstacle the judicious use of commercial fertilities as a guide the problem of breeding cially tested dams. cisely what happens to all new breed- to its rapid spread over the state and izers in conjunction with the use of ers who neglect to put their cows on nation. The most able managers of manures, the growing of legumes and cooperatives are unable to make the the generous application of lime. organizations successful even in an economic way, without the mutual as-THE slow forward sistance of the members. And, on the News of the Week march of civiliza- other hand, those who aid most in tion has been charac- making their association successful are terized by the doing not only the most intelligent and best former in the hands of skillful breed-needed to convince that this is the age their purpose, and confident that the who have made a careful

> Agriculture's Big Question

chasing new animals for his herd, and hearty response from laymen and present. No person can call himself ing whatever railroad rate increases in conducting his breeding operations churchmen everywhere; our literature a farmer until he reaches the point may be approved by the commission.—Francisco Villa is reported to have surom year to year.

The breeder who neglects official the farmers and laboring classes are taining in the soil the needs of maintended to the Mexican government at Sabinas, in the state of Coahuila. testing finds it especially hard to dis- eagerly scanning pages and holding food elements in such state that the herd. Besides, he has been lectured rights or advantages single-handed; at its maximum producing power. The to, over and over again, by dairy ex- legislation that practically revolution- majority of these queries touch upon perts and some of his breed publica- izes the earlier ideas of government is the use of either manure or commer-

While the returning of manure to

who have an established reputation in ready to subordinate other problems to the soil will counteract in a large way the depletion of soil fertility, it is by If the passing and coming genera- no means the whole solution to the ever, when the breeder who made no dous issue, they must act intelligently duction, but are also the foundation for heifers and made good milk and but- the present perplexing conditions is It is impossible to produce the highest ter-fat records with them, could not not an easy task. We venture, how- class of stock on farms that lack in bull calves he could produce. Breed- gress-selfishness-must again be put tucky has justly become famous on ing along approved lines and testing down and his present strangle hold on account of her splendid horses. These all of the good females for official rec- class relations be loosened. What the she can produce because the land is ords is, after all, the only logical golden rule has done to bring men of naturally rich in lime, which element

a near relative of some of the animals service, the socializtation of that rule years' experience at stock raising and in the new breeder's herd, makes a might do in overcoming the mal-adjust- farming has had the value of stable great record. Then, if he has conduct- ment of classes. There is in the idea manure as a fertilizer thoroughly imed his breeding along lines similar to of extending this rule to include class- pressed upon his mind. The larger and those practiced by other good breeders es food, at least, for the thoughtful healthier plants and the increased and made a few credible official rec- consideration of all who are seeking to yield of grain resulting from the use ords, he is in a position to capitalize place business and society on a higher of manure have been too apparent to allow for questioning. But the merits of artificial fertilizers have not been W HILE the antici- observed so generally. Frequently the pated economic effect of artificial fertilizer cannot be advantage coming to accurately judged by the eye, A difthe individual and to ference of twenty per cent in the yield the community of a crop will often be imperceptible. cooperative But that the results from the proper breeding stock begin to inquire about effort furnishes the great motive for use of these commercial soil foods are the official records of the dams and developing this movement so rapidly, just as certain as from the use of the granddams of this and that animal he the benefits derived from cooperatives stable manure, is testified to by the offers for sale, he awakens to a reali- do not stop with economic ends. Pros- careful work of every important govzation of the fact that it is impossible perity following the successful estab- ernment experiment station and this to cash in on individuality and pedi-lishment of one of these institutions testimony is supplemented by the prac-

And during these later years men have learned more accurately the ex-The forces which operate to develop act part these fertilizers have in the

Wednesday, July 28.

HE original plan for a peace conference with the Russian Soviet is of one lesson at a informed members, but they also have supported, providing border states are time. No argument is breadth of vision, are steadfast in represented at the conference.—Poland nee that this is the age their purpose, and confident that the saking the United States for army equipment and her moral aid in the present war with central Russia.—Two earthquake shocks disturb the inhabitants of Los Angeles, while a third is reported from Chile.—Air mail service from New York to San Francisco will probably be inaugurated by the postoffice department September 1.troops capture the Turkish command-

Thursday, July 29. DUTCH business interests take over oil properties at Baku near the caspian sea.—Marshal Foch, of France, advises the Polish armies to fight.—Federal officials predict large reduction at the top of the main at the top of the list of agricultural problems is the question of soil fertility.

Federal ometals predict large reductions in clothing prices, while food prices will likely be little changed.—The Interstate Commerce Commission is petitioned by attorneys for live stock producers' organizations to agree upon some equitable method of apply-

Friday, July 30. na.—Canada's total exports increased \$45,000,000 the last twelve months.—Coal miners of the Wilkes-Barre district refuse to go to work following an order by their chairman to return or (Continued on page 162).

Uncle Sam's Men Who Serve You

An Organizer of a Nation-Wide System of Education and Research in Agriculture and Home Economics, is Director True, of States Relations Service.

By Capt. H. P. Sheldon

GREAT winner of battles." That was the description I had of the man; and the search for him farm girl, the farm woman, and the as the most complete review of scien- use of the products of agriculture and The battle is not yet won-there is dress. But when a door opened and ricultural research on a sound scien- agement. Service, United States Department of science of agriculture so that it could tribution of the States Relation Ser- is any virtue in straight thinking, rior-excepting, perhaps, the eyes, riculture a recognized, honored, and can educational institutions, but you Dr. True's relaxations and recreawhich were steady and direct in their useful profession. gaze. The man looked more like a

had said on the subject? Wasn't there another phase? Oh, yes! "He wins his battles without fighting them!" That was the rest of the sentence; the qualifying statement that helped me to reconcile this scholarly appearing man with his reputation, of accomplishment. "Winning battles without fighting them!" Strategy instead of force of arms. Didn't a great general say that more battles are won by marching than fighting? Haven't history's greatest soldiers been scholarly men? I began to understand.

Dr. True is not a fighter in the sense of plunging against obstacles; rather he is a diplomat and wins his point by clearing away the trouble-making barriers. He has great faith in common counsel, mutual understanding, and broad-minded cooperation. In the days when Or. True was beginning the task that was to be his life work he was often met by strong, sincere opposition from men or from organiza-

lawyers would put it. Nine times out his direction. times out of ten it was only the con- the present system of agricultural ex- mation to the farm people. fusion of two minds striving for the periment stations, which is "unsurpasssame worthy goal, but approaching ed in the world for its efficiency and which was built up, the extension syscretion in regard to the men they sealong different paths, and nine times practical usefulness to agriculture." tem did work, and it worked so well lect to represent them in congress and of effective cooperation of all worthy

University from 1882 to 1884. His ed- of the service. though it proved to be admirably adapt- ing to the service, and hardy cereals battles with farm problems. ed for the service he was to perform, and vegetables are now grown within when the establishment of agricultural Arctic Circle.

of those marks which denote the war- colleges and schools-and making ag- riculture an accepted course in Ameri- the cause he advocates.

scholar than a fighter; yet I had an- a homely way of stating the great second to that of organizing and de- izing. He loves to spend his vacations other's word for it that he was a win- truth that a man must be judged by veloping experiment station work un- in the beautiful Champlain country of the work he has done. Dr. True has der the Hatch and Adams Acts, or the Vermont, where he finds ample op-

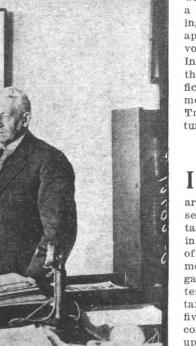
ed to see this warrior-this man who organize and edit the Experiment Sta- to the scientific and practical knowl- with both, one-third with men agents fought the battles of the farm boy and tion Record, which is now recognized edege of the economical and efficient only, and one-third with none at all. farmer himself. Quite naturally, I ex- tific investigation in agriculture in the to the subject of home economics in still much to be done in the way of pected to find a typical fighter, a man world. This was in 1889, and from that general through its investigations re- organizing the cooperative

But was that all that my informant heaped his bench with the right sort cooperative extension work in agricul- portunity to indulge in his favorite

agents." The department aims to have one each of these useful citizens in every county in the United States. At took me to the top story of a gray left college, was that of teaching, but sustaining by the work of the service. present, the score shows one-third of office building in Washington. I want- he was soon called to Washington to It has made important contributions the total number of counties supplied lean of frame and strong of jaw; a time on Dr. True's effort was directed lating to foods, diet, clothing, and throughout the country, but training man of steely eye and brief, curt ad- toward organizing and establishing ag- household equipment, work, and man- men and women for the very exacting work of the profession, but the doctor I stepped into the office of Dr. A. C. tific basis, putting agricultural sub- To the inquiring person Dr. True will is steadily scoring his quiet victories, True, Director of the States Relations jects in pedagogical form-shaping the probably emphasize especially the con- and he will win for his idea, if there Agriculture, I met a man who had none be more effectively taught in American vice toward making the science of ag- clear vision, and unwavering faith in

> will find many men high up in farming tions are what one might suppose them "Judge a carpenter by his chips," is affairs who hold this accomplishment to be—travel, trout fishing, and botan-

> > pastimes. His Vermont neighbors remember instances when, with the hay out, and a summer storm approaching, they have welcomed the appearance of the scholarly volunteer and his pitchfork. In these tasks as well as in the greater work of the office he holds, in the Department of Agriculture, Dr. True has been as loyal in nature as he is True in name.



Dr. True is, and Looks Like, a Scholar, but he is also a Winner of Battles-

tion and conservation, by canning and -the infantry of the Department of removing the tax on colored oleo. Dr. True was educated at Wesleyan other means, of fruits and vegetables Agriculture and the state agricultural University, graduating from that insti- for home consumption is a notable colleges; the live, intimate, friendly tution in 1873. He attended Harvard achievement of the extension workers personalities who help the farmer and

ment of the land-grant colleges opened sessions—Hawaii, Porto Rico, Guam, tions Service, mostly in terms of agrithe door to profesisonal training in ag- and the Virgin Islands—is also being cultural and home demonstration fied as stock raising land since the
riculture. Dr. True's work, after he developed and made more nearly self- agents—"men and women county passage of the act in 1916.

tions. When this occurred, did he rave of chips. His tool has been the Office ture and home economics under the pounds in 1918 to over 20,000,000 pounds Indeed he did not! He gave his op- ed successor, the States Relations Ser- there was a new idea in agricultural there is a demand on the part of the why their "minds did not meet," as the ducts turned out by this bureau under the extension system promised to be the United States has increased from of ten he found the obstacle, nine It has helped greatly to bring about for carrying precise and specific infor- 975,925 in 1918-19, according to the

the farmer's wife, as well as the boys

OLEO MEN BUSY.

T is evident that the oleomargarine manufacturers are making preparations to secure the removal of the tax on colored oleomargarine during the next session of congress. They are promoting a widespread propaganda, in which they are attempting to show that the tax is an increase of twentyfive to thirty per cent to the consumer, and is a hardship upon the people. Figures compiled by the Bureau of Markets show that production of colored oleomargarine increased from 8,000,000

and rant and argue and antagonize? of Experiment Stations and its enlarg- Smith-Lever Act. In the latter case in 1919, which they claim shows that ponent credit for a sincerity equaling vice of the Department of Agriculture, education to be tried out on a broad people for colored oleomargarine. The his own, and then set about to find and here are some of the finished pro- scale. If it should prove successful total production of oleomargarine in the most intimate and effective means 143,157,238 pounds in 1912-13, to 348,commissioner of internal revenue. Un-Thanks to the efficient organization less dairy farmers use some timely distem did work, and it worked so well lect to represent them in congress and out of ten he succeeded in clearing the It has been influential in putting the that in the years since the first county are organized for a systematic, wisely misunderstanding away and enlisting subject matter of agriculture and home agent went out to his work the num-directed campaign in opposition to the the support of his one-time opponent in economics carried out by the county ber of county agents, home demonstra- oleomargarine interests at the beginthe great cause for which he worked-agricultural agents, home demonstration agents, club leaders, and extenning of the session of congress in Dethe elevation of agriculture to its true tion agents, club leaders, specialists, sion specialists engaged in extension cember, they will very likely be unrank as a profession, and the enlisting farm bureaus, and publications. work has increased to about five thou-able to prevent the enactment of an A widespread revival of the produc- sand specially trained men and women amendment to the oleomargarine law

THE Department of the Interior announces that nearly 14,000,000 ucation was classical and scientific, Alaska owes its agricultural awaken- and girls of the farm, in their daily acres of Western lands were classified during the months of June under the The ideal of service to the farmer stock-raising homestead law, which His interest in agriculture came later, a comparatively short distance of the that is the motive power back of every makes public lands available for entry project of the Department of Agricul- for stock raising purposes in homeexperiment stations and the develop- The agriculture of our insular post ure is expressed by the States Relations and the develop- The agriculture of our insular post ure is expressed by the States Relations and the develop-



Don Shepard and Three of His Shorthorn Cows.

miles of Charlotte with Ralph W. Ten- partment. ny, Assistant County Agent and Club tention to business.

corn and small grains render the dairy in Michigan. industry capable of rapid expansion. J. B. Strange, vice-president, is a made highly profitable or to fit in with ability. modern ideas of soil management. Not prices and the scarcity of competent to farmers. farm help.

the best in the state.

taught school, served in the United satisfying. States Army, and came to Eaton coun- Walter Grant, of Bellevue, member

subject matter for whomever Agent and Club Leader, is a Michigan as a man of good judgment and has lives on a farm five miles south of would speculate on the possibili- product. He graduated from M. A. C. ties of its diversified agriculture. Rid- in 1919, taught school at Charlotte one build up his community. Mr. Parr owns an who is sure to do her part in making with Roy E. Decker, County Agri-year and took charge of his present cultural Agent, from Charlotte to Ea- work in June, 1920. Mr. Tenny knows ton Rapids and Diamondale, and west the problems of country boys and girls raising to Potterville, Grand Ledge, Mulliken and how to interest their parents in and Sunfield, then on down the west such a manner as to insure their hearty ber of the executive committee, owns familiar with problems confronting side of the county through Vermont- cooperation in his club projects. In and operates a one hundred and seven ville to Bellevue, then over to Olivet addition to club work he will assist and back to Charlotte; and visiting Mr. Decker in his work, especially in west of Charlotte. He practices genmany farms within a radius of six the management of the new seed de-

W. L. Huber, President of the Eaton Leader, the Circuit Rider cannot help County Farm Bureau, is well known but emphasize the good qualities of as an agricultural leader and progresthe county in terms of productive sive farmer. His farm, two miles west farms, substantial buildings, good live of Charlotte, is devoted to growing stock and the many cooperative or pedigreed grains, alfalfa and corn. Mr. ganizations which have earned the re- Huber breeds Victoria swine and Barspect of the farmers by their close at-red Plymouth Rock chickens. His flock of Barred Rocks has been pronounced Luxuriant fields of alfalfa, clover, by expert poultrymen to be the best

Hand in hand with dairying goes beef, graduate of the M. A. C., owns and oppork, mutton and wool production. The erates a productive three hundred and only limit to dairy production is the eighty-five-acre farm near Grand Ledge. scarcity of farm help; while the limit He has a herd of sixty purebred Holto beef, pork, mutton and wool pro-stein cattle. His herd sire, Alcartra duction is the lack of suitable land for Pontiac Vale De Kol, is a bull of great grazing. In a county with so little individual merit and excellent breedcheap land farmers find it too expen-ing. His three nearest dams average sive to feed beef cattle, hogs and sheep thirty-one and seven-tenths pounds of on a year-round basis. This, in a large butter in seven days. The majority of measure, explains why purchased cat- the females in the herd are of the Veetle and sheep are depended on to con- man line of breeding. Mr. Strange is sume the home-grown feeds. The feed- interested in apple growing and has ing of hogs, when conducted on a mod- twenty-five acres of Northern Spy orrate scale, can be made to yield fair chard. He is recognized as a man of returns, but it is doubtful if it can be sound judgment and good executive

John Loucks, of Charlotte, secretaryfrom the feed they consume, but be- owns and operates Ardendale Farm. cause it is difficult to get the resulting The farm is equipped with every mod- practices general farming and stock county may have convenient marketmanure to the fields without heavy ern convenience and is one of the show losses of fertilizing elements. The lead- farms of the county. Loucks & Sons pedigreed grains and is active in pro- of the communities the farmers already ing crops of the county are corn, breed Holstein cattle and practice gen- moting the work of the new seed de- have strong organizations and others rye, sugar beets, apples, truck crops, eral farming. The Holstein herd is partment of the County Farm Bureau, are being formed as rapidly as suffibeans, alfalfa, mixed hay, wheat, oats, headed by Silver Creek Maplecrest Mr. Raven is a young man, a graduate cient interest develops. In a number and small fruits. This year's acreage Boy and numbers about twenty head. of beans and sugar beets is somewhat Mr. Loucks will do his part toward reduced as a result of unsatisfactory making the organization one of service

T. A. Farrand, of Eaton Rapids, The farmers of Eaton county are member of the executive committee, is well organized for business. The Farm a practical farmer and fruit grower. Bureau has more than fifteen hundred On his splendid fifty-acre farm he members. The officers and members makes a specialty of growing fine apof the executive committee are alive ples. The leading varieties are Jonato the needs of the farmer and deterthans, McIntosh, Steele Reds and Maidmined to make the organization one of en Blush. Mr. Farrand had charge of the South Haven Horticultural Station for four years and served as county R OY E. DECKER, County Agriculagent of Eaton county for eighteen tural Agent, is a graduate of Michmonths. He has a thorough underigan Agricultural College, Class of standing of farm problems and can be 1915. Mr. Decker was born and raised depended upon to support any moveon a farm in northern Indiana. After ments calculated to increase the profits completing his work at college he of farming and make country life more

ty one year ago. He has a keen in- of the executive committee, practices sight of the agricultural and business confidence. Mr. Decker is a bachelor. which has gained their respect and splendid eighty-acre farm. He is a

Our Farm Bureaus

Riding Through Eaton County with Circuit Rider Finds Progressive

capable business man and is well liked of M. A. C., and thoroughly qualified to other person to make it a success in work.

of the executive committee, practices Milking Shorthorn cattle and practices general farming and stock raising. He general farming on his two hundred tent leader.

L. A. Parr, of Charlotte, member of ATON county offers a volume of Ralph W. Tenny, Assistant County the executive committee, is recognized member of the executive committee, always been loyal to movements to Charlotte. Mrs. Vahs is a young womand operates a fine farm and practices ing the County Farm Bureau of benea system of mixed farming and stock fit to women who live on Eaton county

> ty-acre farm two and one-half miles eral farming and stock raising. Mr. I the organization work County Agent Youngs is generally recognized as a



Ralph Tenny and County Agent Roy E. Decker.

man of sound judgment and a knowlfrom the economic and social stand-

Andrew Niles, of Grand Ledge, members about twenty head.

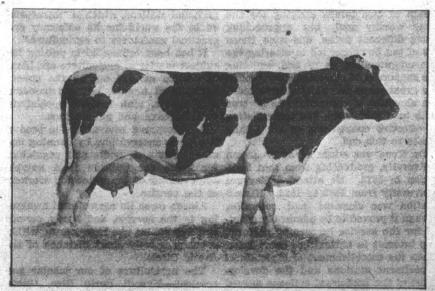
in his community. During the mem- represent his people in all matters rebership drive he did more than any lating to agricultural and organization

E. C. Corey, member of the execu-L. T. Bailey, of Diamondale, member tive committee, of Olivet, breeds good is a man of sound judgment and has a and forty-acre farm. Mr. Corey is presthorough knowledge of the problems ident of the Olivet Cooperative Eleconfronting the farmers of the county. vator and can be depended upon to aid Mr. Bailey is sure to prove a compe- in any movement calculated to benefit the farmers of the county.

Mrs. Paul Vahs, the only woman farms. For a number of years she has Bertrand Youngs, of Charlotte, mem- been active in Grange work and is farm women.

N discussing some of the phases of Decker said: "The Grange and other farm organizations have helped us put across our program. Some of our best leaders were members of these farmers' organizations and their understanding of organization work made it easier to secure results in several communities. Those who underestimate the power of the Grange for good speak without knowledge of the many things it has accomplished during the past fifty years. The very fact that it has been holding meetings from week to week and discussing current topics of the day more than any other group of farmers has enabled its members to grasp the situation more quickly and to work in harmony with members of edge of the farmer's problems, both the Farm Bureau who are not Grangers in improving the business side of our agriculture."

Organization of the farmers in Eaber of the executive committee, has ton county seems to be the order of one of the best equipped one hundred the day, as it is throughout the state and twenty-acre farms in Eaton coun- of Michigan. In the county there are ty. Mr. Niles is one of the agricultural some fourteen buying and selling assoleaders in his community and well- ciations made up of general farmers known as a breeder of registered Hol- and stockmen, not including dairymen stein cattle. At present his herd num- and breeding associations. The County Farm Bureau is busy assisting in this that the hogs remove more plant food treasurer, in company with his sons, the executive committee, owns a fertile plan the scheme in such a manner that E. L. Raven, of Mulliken, member of organization work and endeavoring to two hundred and forty-acre farm and the farmers of every community in the



problems of the farmers of the county a system of general farming on his Grandview Mabel Segis from H. W. Hancock Herd, Produces 608 pounds of Milk and 31.774 Pounds of Butter.

and Their Work

County Agents Decker and Tenny the Farmers with a Vigorous Program

fered for sale at reasonable prices and cessful. their owners are willing to retire from The Eaton Rapids Live Stock Shipin their new quarters.

county, the same as in the majority of other counties, seems to be that of getting the several kinds of buying and selling associations and companies organized in such a manner that they may take full advantage of the powers of collective buying and selling and not run up against federal laws. welded together in such a way that they can do business without interfering with the strict interpretation of ply Association began business in May dent and O. E. Meade manager.

Another matter that seems to be puzzling many members of the County Farm Bureaus is that of determining what constitutes the privileges of members and non-members. Right now is the time to settle some of these problems and get the farmers of the state working along the right lines. In nearly every county these problems are identical and some definite plan of action is needed for them to follow. This is not meant as a melancholy prelude, but merely in the hopes that readers will see the point and cooperate with the proper authorities in putting their organizations on a safe and sound

One of the leading cooperative organizations in Eaton county is the Square Deal Cooperative Association at Charlotte. This organization does Owned by Charles E. Chappell Estate an exclusive live stock shipping business and its last year's business was above half a million dollars. The offi-handle most of the business at Grand these cooperative associations before cers and directors are: Forest King, Ledge this season. president; P. M. Granger, manager; A. T. Cornell, Fred Terrill, Bert Youngs, T. Cornell, Fred Terrill, Bert Youngs, Association did a business of more Herbert Parr, John Loucks, John A. than \$171,000 the past year. The offi
May directors It has been operating May, directors. It has been operating cers and directors are: C. N. Van-threshing rigs at work. The advan- organized among the boys of the counfour years and does practically all of Houten, president; Charles Brown, tages of these threshing rigs is com- ty. While the club numbers only

evator Company at Charlotte. During cream and pays cash on delivery and grown for seed. the first seven months it has done a makes final payments on basis of reer of both organizations and it is very dairymen. largely due to his efforts that these

of communities, elevators have been of- organizations have proved so suc-

the field. When opportunities of this ping Association did more than \$200,kind pesent themselves the farmers 000 worth of business last year. The are finding it easy to finance their pur- officers and directors are: Earl Norchase so that they can begin business ton, president; Charles Frye, manager; Frank Abeles, Chauncey May, Rollo Strickling, F. O. Pierce, Robert ONE of the big problems in Eaton Kirby, Archelle Paquette, Frank Bostedor, directors. A Cooperative Elevator Association has been organized at Eaton Rapids but the officers have not been elected at this time.

The Grand Ledge Live Stock Shipping Association did a business of more than \$200,000 the past year. The officers and directors are: C. I. Brunger, Experience has shown that it requires president; Harrison Doty, manager; C. Association did a business of more March, 1919, and now has about twen-M. Vogt, E. J. Vogt, directors.

with two hundred and fifty members.



and Claude E. Smith.

At Sunfield the Live Stock Shipping



Here Are the Members of the West Carmel Good-Luck Canning Club.



Marshall Kelley and His Championship Angus Bull, Lapeer Blackbird.

and has been in business four years.

ness amounted to more than \$125,000. The officers and directors are: E. C. manager; Dr. Burleson, E. P. Reynolds, M. Schiltz, Chauncey Osborne, Frank Etson, Frank Halsey, directors.

At Windsor and Mulliken, Farm Buer organizations are under way and it is the aim of the County Farm Bureau to have every community served by the end of the year.

business of more than \$200,000 in hand- ceipts. It is making a six per cent sav- bred dairy cattle to improve the herds members are Donald Shepard, presiling farm supplies and feeds. The ing over what other buyers are paying. of grade cattle in Eaton county is be-dent; Ralph Johnson, secretary; Gerofficers and directors are: Fred Ter- The cream is all sold to one company, ginning to bear fruit. Many of the ald Bradley, vice-president; Fay Halrill, president; L. B. Abbott, manager; but plans are under way to operate a farmers have purchased registered sey, treasurer; Emery Halsey, Charles Wilbur Martin, Fred Curtis, Henry Per- plant and ship independent. This is a sires and others have organized bull Dawson, Walter Ball, Morrison Clay, ry, Edward Upright, L. A. Parr, John problem that could be worked out in clubs. A few miles from Charlotte six Pearl Baker, Myrle Wheaton, Verness A. May. Mr. May is secretary-treasur- other communities at a big saving to farmers have purchased a Holstein Wheaton, Wilson Winegar. bull for use in their herds. Clifford At Bellevue the Live Stock Shipping Jordon, Claude Smith, John Ransom, F. C. Lamont, Fred Youngs and Wilbur Cow-TESTING association work has been receiving due attention in the them to using better sires.

The Eaton County Holstein Breed- their cows tested in such

ers' Association was organized in

great skill to get these associations J. Walde, C. Benjamin, J. R. Lowell, H. than \$140,000 the past year. This or- ty members, with the following offiganization has been in the field about cers: Ira Zimmerman, of Diamondale, The Grand Ledge Produce and Sup-three years. John Sharkey is presi- president; Wm. Marshall, of Potterville, vice-president; Lawrence P. Ot-The Bellevue Cooperative Elevator to, of Charlotte, secretary-treasurer. The officers and directors are: J. B. and Warehouse Company did a busi- Mr. Otto is also vice-president of the Strange, president; Harrison Doty, ness of over \$140,000 last year. The Michigan Shorthorn Breeders' Associamanager; A. B. Niles, Elmer Vogt, Nel- officers and directors are: John Shar- tion. While the breeding of Shorthorn son Space, John Espie, Claude Barton, key, president; Glenn Owens, manag- cattle in the county is in its infancy, Myron Smith, directors. Two elevators er; Bert Carroll, F. E. Andrews, George there is much interest and enthusiasm have been purchased and they will H. Garmes, James Murphy, Charles and some of the breeders have already Olinger, M. J. Horton, directors. It has made great progress in improving their one hundred and sixty-five members herds. Dairying being strong throughout the county, there has been a strong Over at Olivet the Cooperative Eletendency to adhere to the milking type vator Company has one hundred and of Shorthorn cattle. Among the esthirty members and last year's busi- tablished breeders are: Simpson Bros. The good five-year-old bull, Archer's Duke, heads their herd and is showing Corey, president; Charles Johnson, good results. Ira Zimmerman heads type of bull that won first in his class at the Illinois State Fair last year. Lawrence Otto has the only herd of Scotch Shorthorns in the county. It is reau Associations have been organized made up largely of Marr-Missies, Viland will begin business this fall. Oth- lage Maids, Alexandrinas, Carmens, Lavenders, Countess and other popular families, headed by Village Lorne, a good son of Imported Lorne of the Prescott herd, who was twice Grand Champion at the Michigan State Fair.

With the assistance of the County the live stock shipping business at manager; C. A. Fars, secretary-treasing to be more fully appreciated in twelve, each boy is a booster for the urer; J. A. Beardsley, George Bitter- many counties each year, especially on breed and very much interested in the Another lively cooperative organiza- man, P. L. Green, Victor Wilson, direc- farms where the acreage of grain is project. Out of the twelve, eight tion is the Square Deal Cooperative El- tors. The association is also handling small or where pedigreed grains are bought bred-heifers. The president of the club bought a choice Scotch heifer The efforts of the breeders of pure- that is a show prospect. The club

> Martin are the members of the club, county and could be made a more and County Agent Decker hopes to or- prominent feature of dairy improveganize other groups of farmers and get ment if some method could be devised so that small breeders might have ers' Association is pushing the breed to give the yearly records an official in the county and making plans to en- standing that would mean something. courage buyers from other states to There is no logical reason why this come to Eaton county when looking work could not be put on a more subfor good Holstein cattle. The officers stantial basis, so that the same assoand directors of the association are: ciations would serve breeders of pure-C. I. Brunger, president; A. H. Loucks, bred dairy cattle, as well as farmers secretary; J. B. Strange, E. A. Vander- who are now building up herds of beck, D. G. Miller, Milton Sprague, C. grade cattle for profitable milk and E. Chapman, directors. One of the butter-fat yields. Here is an opportuaims of the officers is to encourage nity for dairy farmers and breeders of the use of better sires and more A. R. puebred cattle to cooperate and eliminate the expense of official testing and The Eaton County Shorthorn Breed- culling out the low producers from

(Continued on page 152).

Midwest Farm Bureaus Meetat M.A.C.

Important Subjects are Considered by Our Best Informed Agricultural Leaders

Mr. Sapiro Speaks.

fortunate in again securing Mr. Aaron twice this amount. Sapiro, attorney for eight of the California cooperative exchanges, to pre- the year 1911, and there had not been sent the fundamental principles of co- a single season previous when the operation as they have been worked whole crop paid cost of production. By out in California. Mr. Sapiro differen- this time the growers were thoroughly tiated between the Rochdale or Eng. discouraged, and land without vines lish system, and what he calls the Cal- was more valuable than land on which ifornia or American system of cooper- high-producing vineyards were growation. The Rochdale plan was develing. Bankers and retailers also beoped as a buyers' organization, while mouned the situation since they could the Californian system is a plan for do little business when the farmers selling the products of its members. were poor. He also drew the line between the marketing of perishable products and non-perishables. In marketing perish- season these discouraged farmers were ables, the big problem is that of ship-revived and caused to take hope since ping, while in distributing non-perish- the price received that year not only ables, the big question is one of stor- paid the cost of production but gave

gambling when the farmer sells his ing of new vineyards has been done. wheat to the speculator. The latter is not only qualified by native shrewdness and experience, but in addition ing success can be obtained until the he is well equipped through trade connections to know the conditions sur- product marketed. This is what the rounding the market, while the farmer at best is very poorly informed. Consequently the individual farmer is perevery group of producers to obtain the fectly helpless when he attempts to average maximum price. The raisin sell his products alone to the spec- growers, through the aid of their local

The Making of Prices.

Mr. Sapiro recounted the oft repeated statement that wheat prices are supposed to be made in Liverpool. He pictured how the supplies from six surplus producing countries are supposed to move toward the English port and as a result of this and the centralized demand at that point, prices were established. These prices would then be wired to all wheat marketing centers and be reflected there. The theory, he declared, is dead and the practice is vile. Wheat prices for America are pretty largely made by a few large dealers in Chicago. These dealers have agents throughout the world who gather information on grain conditions. The practice is to give out to the public only such of this information as will aid these buyers in gaining their sel-

themselves in a position somewhat of the ironclad contracts these bank- gather the most thorough and tives to Denmark to study the selling cent. associations of that country. This study and the following experiences

The Game of the Big Buyers.

operators worked the raisin growers he should join. The buyers of various concerns got to-

of various marketing problems. Chief data agreed, which tended to reassure not get another car. among these was the grain marketing them of its accuracy. Following this program discussed at Chicago and re- preliminary work, the buyers contractported in the last issue of this journal. ed for the delivery of the crop at one and three-eighths cents per pound, The ways and means committee were while it should have brought at least

This policy had been followed up to

Organize by Commodity.

They agreed to organize and the first them a little in the way of profit. Not Marketing is the business of an ex- a year has passed since in which this pert. It is equally as foolish to put has not been repeated and during the the job of selling grain or live stock past season when the demand for raisinto the hands of an amateur as it is ins became so urgent the margin of to have one unacquainted with law to profit was considerably increased over draw a deed or will. The farmer is other years. As a result much plant-

> Growers should organize by commodity rather than by locality. No lastorganization secures control of the United States Steel Corporation did. Such organization makes it possible for bankers and merchants, were able to sign up seventy-eight per cent of the growers in four months.

> > Contract with Growers.

dation of the cooperative business is not banking connections, but the con- and grown during the same year. tract between the association and the grower. This contract should be ironclad and for a long term. With the contracts not only enable the organi-

Should Serve Members Only.

Through a system of checking up formerly existed between the farmer's

Boards of Trade Unnecessary.

tions be complied with.

cess to the grain before they can use it is exported and also make it necessary for speculative purposes. If the farm- for domestic mills to come to the farmers through their organizations control ers' organization for some of their supsufficient of the grain to make it nec- plies. When this situation comes essary for the millers and consumers about it will be within the province of to come to them for needed supplies the organization to say what the price then the boards of trade can be ignor- will be. Wherever this plan has been is made a permanent institution and with far more discretion than under can keep on supplying grain to its customers from year to year, so that con. dozen or fifteen men sitting at Chicago sumers of grain know that they will perform this function. The fluctuaby the old crowd of speculators, then place recently on our boards of trade they, the consumers, will, according to many statements by them, be glad to new arrangements. deal with the cooperatives and have prices stabilized. It is important there- in the hands of men who are specialists fore, before starting, to have sufficient in their lines. Go to the railroads control of the grain and to build a per- and get a traffic man. Outbid some manent institution.

Treat All Members Alike.

No system is cooperative that allows one farmer, or group of farmers, to make money off another farmer or group. The system must treat every member alike. Every member should realize the same price for the same grade and variety. It is not right that one man should get \$2.40 for No. 2 red wheat, his neighbor \$2.50, and another man \$2.60 for the same grade. A pure cooperative organization would, according to Mr. Sapiro, level up the price He next emphasized that the foun- and give each man the same money for a product that was uniform in grade

Establishing Prices.

10,800 contracts written were carried take the price offered by buyers whose with the representatives of other out. Should a person threaten to sell profits increased as the price paid the states, make a study of the California, outside the organization they institute farmer was cut down. This price con- and other cooperative institutions, recourt proceedings to secure an in- trol is now made possible because the port back to his state organization junction to prevent marketing else- growers' organization has seventy- with such recommendations as he may

basis for credit at the bank. This year ganization through its connection with fers its report and a general program New York bankers solicited the busi- producers and with the trade, its ex- is up for consideration. When the western people found ness of the raisin growers and because pert statisticians and sales managers. It was further moved that congress similar to this in the distribution of ers loaned \$10,000,000 to the organiza- data on the raisin industry and the representatives and experts to Dentheir fruit crops they sent representation at four and three-quarters per growing crop that can be had any mark and Southern Russia to make a where. With this data at hand the di- study of the cooperative organizations rectors, sales experts, advertising men, established there, compile the infor-Mr. Sapiro's contention is that coop representatives of the public are called mation and make it available. has resulted in the most successful co- erative associations should handle bus- in and the matters gone over very Professor Mumford Speaks on Live operative enterprises developed in iness for members only. It is organized carefully. Now these men do not en-America. During the past year the co- for them and they should have the ben- deavor to secure the very peak price. operatives of California have handled efits resulting, and further, the only Rather they go about the matter in a the live stock marketing department of over \$300,000,000 worth of farmers' way to build up and maintain a mem-business way, and not on a speculative the Illinois Agricultural Association, bership is to retain for the members basis. They agree upon a price which spoke briefly upon this absorbing the benefits of organization. If an out-will encourage consumption and still theme. He introduced his remarks by Here is an example of how the big side grower desires the benefits then enable the producers to make money, stating that he had no definite program In reducing the wide margin which to present. The problems connected

HE meeting of the presidents gether before approaching the farmers sales the organization has been able selling price and the retail prices, and secretaries of the Farm Bu- and decided upon a program to secure to reduce speculation in prunes from these two seemingly contradictory ends reau Federations of the midwest a certain season's crop. They agreed a hundred per cent to less than ten are gained to an extent that consumpstates, held at Chicago July 23-24, was to report to their respective patrons per cent of the crop. The crop is sold tion is growing rapidly and at the same continued at East Lansing on Tuesday that a 50,000-ton crop was developing, to wholesalers or distributors and if time the growers are sending their and Wednesday. July 27-28. While a while 30,000 tons was the amount the any of these houses resells to another children to colleges and universities in number of important agricultural prob- market needed. This propaganda was wholesale or distributing house there- larger numbers than in any other part lems were discussed at this East Lan- spread throughout the producing dis- by increasing the retail price beyond of the country simply because the farmsing meeting, the greater portion of the tricts and later the uninformed growers what it should be, the growers' organi- ers have money and a reasonable astime was devoted to the consideration in comparing notes found that their zation sees to it that such concerns do surance that they will have a living income for the coming years

> Wheat Growers Should Have Control. He reaffirmed statements made at Mr. Sapiro advised against the wheat Chicago that the grain growers should growers organizing into a national ornot seek memberships in the great ganization until they could control grain exchanges, but should rather fifty-one per cent of the wheat in the seek to make these gambling institu- surplus wheat states. The average protions useless by selling grains direct duction of this grain in the United from the locals to the millers or con- States is 750,000,000 bushels while the sumers. This he feels is easy of ac-domestic consumption is about 570,000,complishment should certain condi- 000 bushels. If the farmers can have under contract - 450,000,000 The boards of trade must have ac- then they will have control of all that ed, and if an organization of this size followed the public has been served the private control system where a not be imposed on or boycotted later tions in wheat prices which have taken could hardly have occurred under the

The grain should be pooled and put successful concern for their sales manager. Hunt out the best advertising man to be found and lay before him your advertising problems. In other words, it requires brains to successfully handle a business of this kind.

His most instructive and interesting address was closed by a statement that there follows a great uplift to the community when put on the right commercial basis. It has proved thus in California and the experience in Denmark has been even more marked.

Conference Starts Educational Program,

As a final result of the address of Mr. Sapiro and the following discussion it was voted that the conference recommend in addition to the commit-The price for the product of any one tee of seventeen provided for at the raisin growers the term is five years year is established by the organization. Chicago conference, that each State and the conditions of the contract used This is quite different than in former Farm Bureau select and pay the exwere so binding that every one of times when growers were obliged to penses of a representative who will go where than to the association. The eight per cent of the crop signed up. choose to make. This, it was thought, Here is how the price is made. All would prepare the state organizations zation to know just what products they statistics on raisins are gathered, both and the local units to act intelligently have to sell, but they also furnish the as to production and demand. The or- when the committee of seventeen of-

reliable be asked to appropria

Stock Marketing.

Professor Mumford, who now heads (Continued on page 140).

Shipping Problems

By E. E. Reynolds

farmers, especially the live stock rais- sight. ers, may well keep a close line upon contemplated by the men in charge of THROUGH the efforts of the Amerthis government constitutions. this government organization.

National Association of Manufactur- can furnish from thirty to thirty-five ers, the other day, Admiral Benson, boats on the Great Lakes for the chairman of the Shipping Board, said transportation of grain, and the rates that "the board is determined to live will be competitive with the railroads. up to the letter of the Jones Merchant Marine law in spite of threats and propaganda carried on by foreign inof the law," which evidently means gle, with its resulting tie-up in grain terests seeking to defeat the purpose that an attempt will be made to build up an adequate merchant marine.

authority, says the board is primarily interested in establishing an American new crop, local buyers find it necesmerchant marine on a paying basis; the future prosperity of the whole nathe Jones Merchant Marine law, by establishing steamship lines from various American ports to foreign countries where it is thought that profitable passenger and freight traffic can be developed. The ships are to be leased by the Shipping Board to individuals or private corporations under contracts that provide the trade routes under which they are to sail. The board will lease some of its ships to a private corporation to operate from Rio de Janeiro and other South American ports to England.

tection of all American industries, it is than by cutting down the efficiency announced that two projects are to be and the carrying capacity of our ardeveloped as soon as possible, which teries of transportation," says Mr. come into direct competition with Howard. "One of the most lamentable of refrigerator steamships between effect it may have upon next year's River ports in South America for the will start within a month, and predicpurpose of bringing cheap meat from tion of heavy cuts in acreage are genthe Argentine to the United States. eral." The other is a refrigerator line to Australia for the same purpose. It is tion has plans under way to affect a argued that if our merchant marine does not carry the cheap farm prod- which will handle the bulk of the ucts from these countries to our shores the ships of other nations will, and the at a considerable saving to both probenefit of this trade. Profits for the ganizations have been invited to comerchant marine and an abundant sup-operate in this movement, especially ply of cheap food for the millions of the associations which have under consumers in the Eastern cities are their control co-operative elevators, which will bring the live stock raisers co-ordinating sales agency for the of the Middle West into direct compe- handling of wheat and other grains. tition with the stock raisers of South It may take a year or more to perfect America and Australia in our own the organization, and establish it upon home markets. The only remedy that a firm, permanent business basis. is suggested by those friendly to the stock raising industry is a tariff on the loading of fertilizers to the extent tion of imported meat products.

ington representatives, acting for tilizer movement for the season has states. Unless there is better facili- season for the purpose of helping out ties provided and less prohibitive rates the car supply.

MERE is scarcely a government granted, the Maine apple growers say activity, the movements of they will be put out of business. The which do not in one way or an- American Apple Shippers' Association other very seriously affect the inter- and other organizations, it is expectests of the farmers. "It is a far cry" ed, will join in this move for better from the Pennsylvania or Middle West shipping service. A request will be farm to the United States Shipping made to the Shipping Board for allo-Board, apparently, nevertheless state- cation or special refrigerator ships to ments given out by men closely iden- handle the apple situation. Some tified with the board indicate that hopes are entertained that relief is in

Washington office, the United States In an address delivered before the Shipping Board has announced that it

President J. R. Howard of the American Farm Bureau Federation, while here recently, said "the railroad tanmovement, is costing the farmers hundreds of thousands daily." He says that with as high as 25 per cent of An official of the shipping board, last year's crop still remaining in the who is in a position to speak with local elevators in some sections, and totally inadequate movement of the sary to protect themselves by wider but that it is to be accomplished with margins. These increases in margins are costing the farmer at the elevator tion in mind. This is to be done under a total of ten cents or more a bushel over the usual handling margins. And this does not benefit the consumer, as it is a direct loss, a sacrifice to inerficiency. "Flour, in fact, is selling at a higher price today through the operation of some of those same inefficiency factors."

"The railway laborer who has willfully cut down his volume of work and repeatedly struck for increased wages may wake up one of these days to find that the increase he has caused in the cost of food, clothing and shelter more than offset the increase he has demanded in wages. There is no In spite of the claim that the Amer-more damnable point at which labor ican Merchant Marine is to be oper-can attack our economic structure, and ated with full recognition of the pro- no surer way of cutting its own throat American agriculture. One is a line features of the whole situation is the Atlantic Coast ports and the Plata crop. Preparation for the next crop

The American Farm Bureau Federaco-operative grain marketing system grain produced in the United States United States might as well have the ducers and consumers. All farm orthe inducements back of this project, with a view to developing a central

ican stock farmers from the competidaily requirements has been ordered by the Interstate Commerce Commis-The matter of securing a reduction sion. This demand on the part of the in freight rates on export apples and fertilizer trade is being followed with better transportation facilities has another for priority orders for cars to been taken up with the Shipping move raw rock phosphate from the Board by the National Grange Wash- mines to the fertilizer plants. The fermembers of the grange in several already begun in advance of the usual

Paddling Its Own Canoe

THE publisher of a metropolitan newspaper asked recently, "Is it true that there is a common ownership and a common Board of Directors for all the Companies having Standard Oil as part of their name?"

Our answer to this gentleman was, "It is not true."

The Standard Oil Company (Indiana) is distinct from other corporations having a similar name.

It is owned by 4799 stockholders, of whom 2124 are women. No single stockholder owns as much as 10 percent of the total stock.

The affairs of this Company are administered by a Board of Directors consisting of 7 men, who devote their entire time to the Company's business and are connected in no way with any other Standard Oil Company.

Each man has won his position through demonstrated ability and is a specialist in handling the particular work for which he is responsible.

The personnel of the present Board of Directors of the Standard Oil Company (Indiana) is

> Mr. Robert W. Stewart Chairman of the Board

Mr. Wm. M. Burton President

Mr. Henry S. Morton Vice-President

Mr. Edward G. Seubert Secretary-Treasurer

> Mr. Seth C. Drake General Manager—Sales

Mr. Wm. E. Warwick General Manager—Manufacturing

Mr. Beaumont Parks Assistant General Manager-Manufacturing

These men fix the policy and practices of the Standard Oil Company (Indiana).

They are responsible only to the 4799 stockholders.

Standard Oil Company

(Indiana)

910 So. Michigan Avenue, Chicago, Ill.

Farmer Interests at Washington

HE American Farm Bureau Fed-

plus at extremely low prices. immediate disposal of its entire surhe rightfully owes to every citizen in his community by acting as a medium through which these meats will be distributed at the very low prices at without injury to any industry; but the Figures compiled by Andrew P. Andr are not to be offered for export. the wide publicity to be given to the prices at which the government will will be the losers.

As the total road mileage in the Unitseed testing division thirty-one years
ed States, outside incorporated towns ago, and has long been in the library
will at once recognize and appreciate.

When this phase of the matter, the and cities is 2.475 and and appreciate. will at once recognize and appreciate the spirit of cooperation to lower the living costs rendered by every retailer

eration Washington office is War Department for sale amounts to that as the farmers have already made their rates twenty-five per cent. Now calling attention to the war de- around 78,000,000 pounds of beef and so much out of the war, they could well since their employes have made a department's sensational advertising cam- 50,000,000 pounds of bacon, all in cans. afford to stand the loss which this big mand for \$73,000,000 salary raise, the paign to sell its surplus stock of meats. It is being sold at a loss, but at the government drive against meat prices express companies are asking for a fif-One large display advertisement which highest wholesale market price, it is might cause them. It is only in line, teen per cent advance on top of their is typical of others, begins as follows: claimed, the department can get. The however, with the policy of the admin-former request, which if granted, "Government acts to lower living costs. The Secretary of War orders immediate release and sale to the American public of all meats declared surplus at extremely low prices. By the By the instead of making the disposal of the States Department of Agriculture, has \$626,000,000 wage increase granted by immediate disposal of its entire surplus stock of canned meats, at the extremely low prices at which they will more largely interested in breaking shown that 2,885 projects have been are given the two increases asked for,

it could all be sold within a few weeks ing 14,000 miles of roads.

effect of this low price advertising seen that there are three motor ve- native of western New York. Before campaign upon the cattle raisers, was hicles for every mile of highway. who participates in the distribution of pointed out to the War Department Some time ago the express compature he was the editor of Colman's

which they can be sold. These goods Farm Bureau Federation men look up-derson, highway engineer of the Buon this attempt to break prices as a reau of Public Roads, show that there William A. King on August 20, at the decision of the Secretary of War to decision of the Secretary of War to distribute them through every possible channel is made in order that the Amsumers lower prices for a time, will types registered in the United States Department of the sumers lower prices for a time, will types registered in the United States from the United States Department of the sumers lower prices for a time, will type one of the oldest employed. erican people may benefit directly by have a psychological effect upon the during 1918, an increase of twenty- Agriculture one of its oldest employes, the extremely low prices at which market that will be disastrous to the three per cent over the previous year. Major King was appointed chief of the three meats will be sold. Because of cattle-raising industry and the farmers As the total road mileage in the Unit- seed testing division thirty-one years.

officials having in charge the sale of nies asked the interstate commerce Rural World.

This surplus of meats offered by the the meats, they assumed the attitude commission to allow them to increase

tremely low prices at which they will be sold, the government delivers a the price of meats and thereby lower-filed with the bureau, of which 2,790 it would mean an additional freight powerful blow at the high cost of living * * * Every available outlet will be used in distributing these will be used in distributing these compared with the enormous annual 27,796 miles of road improvement, pay, and the passenger fares would be compared with the enormous annual 27,796 miles of road improvement. consumption of meats in the United plans, specifications and estimates of advanced twenty per cent. Milk tariffs will be used in distributing the small consumption of meats in the United plans, specifications and estimates of advanced twenty per cent. Milk tariffs est to the largest, will perform a duty States, this 75,000,000 pounds of beef 1,800 projects have been recommended would be increased to the same level is less than a half week's supply, and for approval by the bureau, represent- as freight rates, or an estimated increase of \$8,666,089 in the cost of

> The coming retirement of Major coming to the Department of Agricul-

Midwest Farm Bureaus Meet at M. A.

(Continued from page 138). business is centralized as soon as the men to take care of this work. live stock passes out of the farmer's hands. As a consequence competition is practically eliminated. There are only about two hundred and fifty large slaughterers of live stock in the country. Because of the magnitude of the business this results in a situation where these men can cooperate to the detriment of the farmers. The first big problem is therefore, to get competition in this end of the business.

A second problem is to do something for the consumer. He must be assured that the industry is going to deal squarely with him. To maintain the supply and to keep up the demand for live stock products are questions the solution of which will tax our biggest and best informed men.

A third difficulty in the handling of this product is that it is perishable. When stock is prepared for the market it must leave the producer and be added to the stocks in the hands of distributing agents.

Two Suggestions.

The first suggestion made by Professor Mumford was to inaugurate a program of intelligent production. At the man has no definite knowledge whatever as to the probable supply and demand of stock when his animals are' ast more or less accurately them.

operative shipping association have sheep industry.

furnished a means for reducing exwith a satisfactory live stock market- penses. Many of these, however, are ing scheme are baffling. He first em- improperly organized and managed. phasized the fact that the live stock Our present need is for better trained ent at this conference was unqualified-

business.

Bureau Federation to extend coopera- transportation facilities will pay for we could deal directly with them. tive live stock marketing organizations rectifying the St. Lawrence river. By

of selling live stock by the cooperative method at Omaha is sixty-five per cent below the prevailing charges of commission men, the midwest State Farm Bureaus ask a conference with commission firms looking toward a represent time the farmer or live stock duction of the present commission

To Form National Wool Pool.

of the American Farm Bureau Federaplaced on the "truth-in-fabric" bill now zation.

Favors the Great Lakes Tidewater Improvement.

Sentiment among the persons presly in favor of the opening of the Great-Professor Mumford fears that the Lakes-to-Ocean transportation through rapid development of the live stock in the improvement of lake canals and dustry in South America is going to the St. Lawrence river. Charles Craig, have a big influence upon the business of Duluth, president of the Great Lakes in this country. Tariff legislation may Tidewater Association, declared in a be necessary to protect our live stock carefully prepared address that seventy per cent of the food consumed in the United States, and almost one huntry than any other public enterprise.

Better Seed.

Farm Bureau, gave the delegates an keep prices of seeds reasonable. idea of how the department proposes ers must get in a position where they the conference that President Howard, ganized seed departments. The farm- college to give. Dean Shaw declared er has always left the production of the time had arrived when more exact

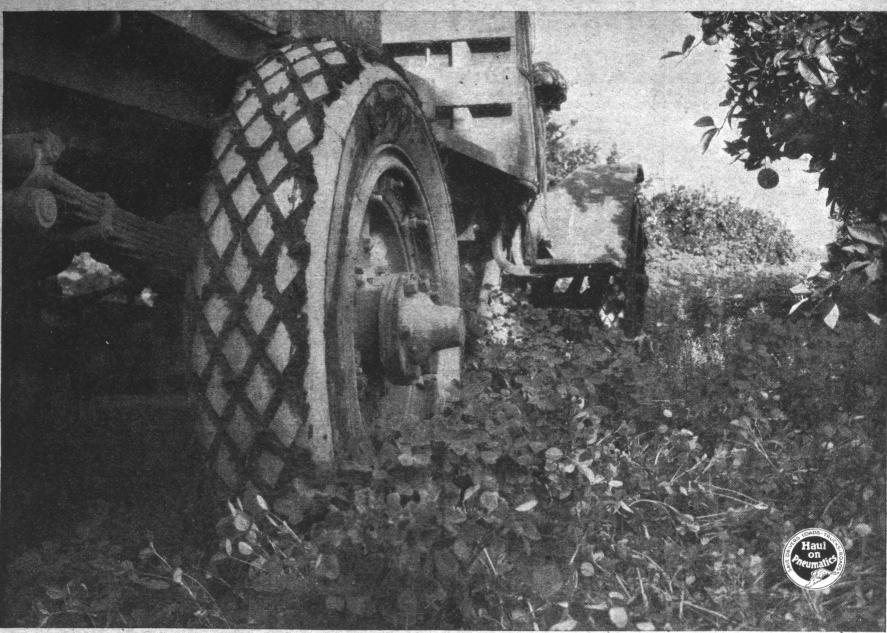
the seed should be allowed to go out Agriculture.

of the farmer's hands at all. Have speculators any reason to take toll in collecting and distributing this product and bringing it back to the farmer frequently in an adulterated form? Mr. Nicolson contends that it is perfectly feasible for the State Farm Bureaus to handle cloverseed to the direct benefit of the farmer members through the various organized groups.

The Michigan seed department deals with each county as a unit. This enables them to handle seeds on a carlot Following Professor Mumford's talk dred per cent of the export food pro- basis, in most instances, thus reducing ducts are raised in the middle-west cost. The state association is now in gram of the American Federation of states. He stated further, that the market for timothy seed. If the Farm Bureaus, a motion that we re- money which the farmers of this dis- farmers of Missouri who grow a surquest officials of the American Farm trict lose each year through inadequate plus of this product, were organized,

Another benefit to be derived by orto markets not now served by either bringing the Atlantic Coast fifteen hunganization is that different groups of extending existing organizations or by dred miles nearer this great product farmers will not be competing in the organizing new associations, was ta- ing section, this project, the expense market for seeds. Last year the counbled, with the request that copies of which will be cared for by the water ty agents of various counties in the the motion be sent to each State Farm power developed, constitutes one of the northern states, and a few of the state Bureau association for consideration. greatest internal improvements ever associations were out in the field bidundertaken, and means more to the ding against each other for Grimm alto the effect that inasmuch as the cost agricultural development of the coun-falfa seed. This bidding forced the price to a much higher level than would have obtained had they all purchased through a single agency. The Mr. J. W. Nicolson, manager of the object of such an association is thereseed department of the Michigan State fore, to protect the farmers and to

Many other speakers addressed the to aid Michigan farmers in securing conference. Dr. Kedzie, president of better seed at a more reasonable price, the Michigan Agricultural College, and how the various State Farm Bu- stated that the facilities of the College After a discussion of the present reaus could render an even greater ser- were available to the Farm Bureau orready for sale. These men produce re- wool pool situation by representatives vice to the individual members if all ganization for every service that it was gardless of the market situation. Farm- of the various states, it was voted by the State Farm Bureaus had well or- possible and within the limits of the the general marketing conditions. To tion be asked to take immediate steps seeds to the seedsmen and as a result information on the great farming busdo this, a live stock reporting service looking towards the organization of he has simply taken what was offered iness was needed. President Howard must be organized. Reports should be the state wool marketing departments him. It is impossible for the individ- impressed the delegates with the conmade at least every three months. Ev- into one great national pool. Reports ual farmer to determine through ex- structive work that the American Federy agency having knowledge of the from these states indicated that the periment and observation the best eration of Farm Bureaus is doing. situation ought to be used in collect- combined pools would amount to be- seeds for him to grow. To do this Wm, Eckhart, of the grain marketing ing this information so that the reports tween 25,000,000 and 30,000,000 pounds. work efficiently and effectively it is department of the Illinois Agricultural be as accurate as it is possible to make In the discussions much emphasis was necessary to work through an organi- Association, and Mr. Crandell, secretary of the South Dakota Association, The second suggestion is to get the before congress. Growers are unani- In the case of clover seed we have reported on the work being done by stock to market in the least expensive mous in their opinion that the passage a product which is grown and used by the United Grain Growers, Ltd., of and the best manner. Thus far the co- of this bill is necessary to protect the farmers. The question arises as to why Canada, and the Canadian Council of



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"Your Goodyear Cord Tires on our truck go right through the plowed ground of our citrus groves, permitting loading at the trees, and they protect the fruit, particularly the lemons, which are very delicate, by smoothing the haul to the packing house. They save labor, fruit, time."—H. J. Kelly, Packing House Manager, Charles C. Chapman Ranch, Fullerton, California

In rural hauling like this and in farm duty radically different, the use of Goodyear Cord Tires on trucks has been found productive of a variety of important advantages.

Their traction has increased truck utility for farmers, ranchmen, fruit growers, dairymen and others, particularly owners of motorized farms, by enabling easy hauling through soft fields.

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Farm Land at \$15 to \$30 an Acre

—land equal to that which through many years has yielded from 20 to 45 bushels of wheat to the acre—grazing land convenient to good grain farms at proportionately low prices. These lands have every rural convenience; good schools, churches, roads, telephones, the electric live towns and good markets. good schools, churches, roads, telephonetc., close to live towns and good markets.

If you want to get back to the farm, or to farm on a larger scale than is possible under your present conditions, investigate what Western Canada has to offer you.

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GENUINE Shall We Consolidate Our Schools?

By Gertrude R. Hansen

subject of "better schools?"

superintendent.

rural school must give way to someby the rush of young men and women rare. the schools in that State have already The Rural Agricultural School Act. adopted a system of consolidation. In

put a little more thought on the vital to attend the nearest high school, year and two or more teachers emthe hands of politics and that a coun- one-room rural school. All wide-awake farmers of the community.

The graded school act is especially if they wish.



In the Consolidated Schools, there is Opportunity to Educate the Boys and Girls Towards, Rather than Away from the Farm.

ers a cause of dissatisfaction but poor- act. wish their children to grow up with Public Instruction. or don't care.

dread to send their children to the Manual Training, Domestic Science Michigan. All varieties of boys months of the year.

name at least one and often several more than 20 acres of land used for

IN THESE DAYS of "better" things boys and girls who were eager to ad- the same purposes as in Class A "better babies," "better crops," vance farther than the eighth grade schools. The instructors are a prin-"better stock," etc., should we not but could not be spared from home cipal hired for twelve months of the Some parents have sacrificed much ployed for ten months. Notice that Let us look over a few of the many and have sent their children away to the principal in Class B schools is on reasons for a change in our present school or have moved to town them-duty twelve months of the year. In selves to give their children educa- the two months that school is not in E. T. Meredith of Iowa says: "The tional privileges. That is one place session he oversees boys' and girls' curse of our educational system is where the district school falls short, club work and assist in farm demonthe school district." He contends that One would think it needless to men-stration work, and is also ready to the schools should be taken out of tion more of the limitations of the give assistance and advice to the ty board manage all the rural schools citizens may see for themselves if schools are practically experiment in the county and appoint a county they have not already seen. One stations for the farming community. mother said not long ago: "The im- In one section of Houghton county, One thing we know—the one room morality in our school is sickening." where a rural agricultural school was There is a way to remedy all these organized, the methods of farming thing better. Its day is already past defects and thinking parents agree were practically revolutionized in less and all over the country complaint is with all our prominent educators that than two years. The State gives anmade of the "district" school system. that way is consolidation, making the nually at least_\$600 to schools of According to the findings of govern- township, or, better yet, the county, Class A and at least \$900 annually to ment experts about half of the rural the unit of organization. Let me say schools of Class B, besides \$200 per schools of the United States are now here that there have been and still year for each vehicle used in carrytaught by inexperienced teachers, are some good one-room schools with ing pupils to and from school. Acmost of whom are boys and girls of splendid teachers at their head who cording to the State Act all the buildno training and very little educational have done much for the pupils and ings must be modern, properly heated, preparation. This is mainly caused the community, but these schools are ventilated and lighted, and have proper equipment for teaching agriculto the large cities, partly induced by Our state already has four different ture, manual training and home ecothe low wages given to school teach- laws by which schools may be con- nomics. The plans for buildings must ers and the extremely high wages solidated. These are (1) the Graded be approved by the State Superinvenpaid for other work in the cities. The School Act; (2) The Township Unit dent of Public Instruction. The State State of Iowa was short 100 teachers Act for the Upper Peninsula; (3) The Department of Public Instruction has last fall, and as a result, one-half of General Township Unit Act, and (4) issued plans for buildings which may be used by any districts consolidating

The teachers of home economics, agriculture and manual training must have completed a course in the subject they teach in a college or State Normal. The principals must hold a state life certificate and also possess other special qualifications. In the last year eight rural agricultural schools have been formed in lower Michigan, and about two years ago one was organized in Houghton County. The greater part of the schools of Upper Michigan are consolidated or centralized under the township unit

Some of the advantages of the consolidated schools are shown by the results where they are established.

We know that our rural school's generally have not created a greater love for the farm or country life and this is one of the greatest aims of the consolidated school. Not only in agriculture do the pupils find themselves our own State of Michigan we were for the use of cities and villages but on familiar ground but a practical ap-500 teachers short, and eight new con- has been adapted to the needs of plication is found in language, arithsolidated schools were formed, and in some of the more populous rural dis- metic, geography, etc., to their home most of our rural schools we are em- tricts, as in Berrien, Van Buren and surroundings and daily life. The large ploying those inexperienced and un-some other counties. The general classes in these schools create a spirit trained boys and girls above men-township unit act is practically the of competition—there are very few tioned. Not only are inefficient teach- same in effect as the graded school laggards. Large classes always possess more interest than a class of one ly equipped buildings in poor repair, The Rural Agricultural School Act or two or three. The size of the unsanitary conditions and insufficient seems at present the one best adapted grounds, aside from agricultural work, water supply, bad roads causing a low to the needs of our rural districts in give good facilities for up-to-date percentage of attendance, and many lower Michigan. The Michigan State playground and athletics. The domesother things. Insufficient supervision Grange at their last annual meeting tic science teacher has particular of pupils while at school is one of the in December, 1919, endorsed this plan oversight of the personal welfare and most deplorable of our rural condi- of consolidation, and it is also ap- morals of the pupils. The superior tions. Self-respecting parents who proved by our State Superintendent of education and special training for rural work is a great advantage over healthy morals and any decency at all In the Rural Agricultural School, the present system in most of lower average country or small village and Agriculture must be a part of girls' clubs are fostered by the rural school. A prominent club woman of the course of study. Now the inter-agricultural school, including athletic, this State who has studied rural esting part of this last named act is literary and debating clubs. Not only school conditions makes the state-that the State gives financial aid to- the school itself is put on a higher ment that "it is impossible for chil- ward the maintenance of such schools, standing but the entire community dren in the average rural school to There are two classes of schools pro- profits by it. There is a public pride be decent." This is certainly partly vided for-Class A and Class B. Class in a centralized community that is not the fault of the teacher but not en- A consists of schools having less than found in the little one-room district. tirely. There are many faults of the 20 acres of land used partly for agri- We find that the better school brings one room rural school that could be cultural demonstration and some for in its wake, better farms, better roads remedied if the people insisted upon playgrounds and athletics. The in- and better homes, higher value of it, but sometimes it almost seems as if structors are a principal and two or land and a much higher moral sentithe majority of people are either blind more teachers employed for nine ment. The rural social problem is also solved by the centralized school. Nearly everyone who reads this can Class B consists of schools having It is a center for all kinds of com-(Continued on page 161).

Montion The Michigan Farmer When Writing Advelleurs

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The Combination Farmer

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Some of the keenest business men in the country today are our hard-working farmers—toilers who cherish the possessions and constructively build holdings of great value. Men who study production and distribution as interestedly as the man behind the desk in our busiest cities.

And-

ARG—

this same type of farmer realizes that the great bulk of his success has been the hard work of years of sacrifice and management and he is naturally particularly anxious to protect his house, goods, barns, and other buildings from fires that authority says destroy millions of dollars worth of agricultural property each year. He is business man enough to see the urgent necessity for real fire protection and for 100% protection at that. He has discovered through inventory and experience that unless he did double his insurance, he would be 50% UNDER-INSURED and liable to stand a big loss. Have YOU taken the business farmers' wise precaution?

The Peninsular Way

offers the thinking farmer HIS CHANCE to FULLY PROTECT his holdings. This Big Michigan Fire Insurance Company protects the farmer's possessions on the same basis that it protects city property, with buildings rated according to locations and all protective improvements duly considered.

Good Common-Sense Judgement

A Peninsular Policy, in addition to any present policy now carried, completely fortifies the farmer from any fire hazard and shows excellent business judgment. This company also protects your growing crops against WIND and HAIL.

Drop a line to our Farm Department TODAY and complete information will be sent you without obligating you in any way. It might be costly to wait.

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This delicious drink with its coffeelike flavor, suits coffee drinkers. Its value to health soon shows, and its economy is so apparent under use that one quickly realizes.

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Our Service Department

EFFECT OF CEDAR ON FRUIT.

Will a red cedar tree have any effect on apples? Does white pine and white cedar have any effect on currants? T. J. S.

Red cedar trees do have a seriously detrimental effect upon apples because the cedar trees harbor the apple rust fungus in one stage of its life cycle. It is poor orcharding policy to plant windbreaks of junipers or to allow the tree to grow near apple orchards.

To date one cannot point to actual losses which have occurred from this cause in Michigan. The true apple rust is more or less of a curiosity with us, and the red cedar as a roadside tree is extremely uncommon as compared with the conditions in other states. But we must be aware of the losses which this fungus has caused in other states, such as Wisconsin, Ohio, Indiana, Illinois and Nebraska. We should be guided by the experience of those states. Exactly as the red cedar became a common tree growing in waste places, about dooryards, and along fences, so the apple rust developed and became a serious pest. The recent experience in Ohio is well worthy of careful consideration. In the last fifteen years the red cedar Expensive and time-consuming eradication measures aimed at the red cedar or juniper tree are now necessary.

Not all apples are equally susceptible to injury. York Imperial, Rome, Wealthy, Jonathan and Ben Davis are

result of red cedars we have adequate laws to bring about the control of the question hinges on the way you are pest, but we should not add to the bur- handling your cream. Cream must be den of fruit growing by planting the tree. It is doubtful if the various horticultural varieties of juniper used for ornament are subject to the rust, but certainly the red cedar tree is. Birds carrying the seeds will spread the tree and in a few years our waste lands could become populated with the red cedar if fruit growers permitted the wholesale introduction.

White pine harbors a similar rust currants and gooseberries. Fortunate-In the New England states it is a sergrow currants and gooseberries or ter come in a reasonable time. white pine. Currants and gooseberries are under restrictions governing movement from nurseries, but they are perfectly safe to grow in any part of the state so far as we know at present.

The white cedar is safe to grow any-

in many cases require two different be applied per acre to insure a good plants as hosts on which to complete catch of clover?—J. B. their life cycle. Farmers centuries Apply the lime after plowing and men was correct and the old laws of but is likely satisfactory.

France, Denmark and Massachusetts had proper foundation.

This discovery of the relationship of grains and the barberry, through the dangerous rust which was harbored, opened the way for a study of other relationships of the same sort and today we know of some five hundred of such biological partnerships. Scientific agriculture seeks to utilize this dependence of the rust upon two hosts to complete its life cycle to prevent losses, for it is usually possible to exclude or control the distribution of one host and thus protect the other. The clearing of wild gooseberries from the vicinities of white pine will protect a young pine plantation and similarly the clearing away of pine from near currants will control the rust as it develops on the currants. The plan of preventing rust outbreaks of serious type by the eradication of the barberry is well known to all.

It is characteristic of modern agricultural science that it strives to prevent losses by attacking the parasites at the vulnerable points.

G. H. Coons.

BUTTER WON'T COME.

I have two good young cows from has been spreading in Ohio and is now which we make butter for our own doing serious damage in that state. use and for some time past, and until recently we could get butter from our barrel-churn in ten to fifteen minutes' time, but the last three churnings have taken from three-quarters of an hour to two hours' time. My cows have good pasture, they are both in good condition and we feed them a mixture of middlings and bran twice Grimes, Northern Spy and Maiden
Blush are fairly resistant.

If rust develops in Michigan as a local to the season?

Alcona Co.

C. Y.

I am inclined to think the whole

properly cared for and properly ripened in order to have the butter come quickly. As soon as you skim the milk, cool the cream and set aside in a cool place, until you want to churn it. The next time you skim, cool this before mixing it with cold cream and continue this until you have a sufficient amount of cream for churning. Then bring your cream into a warm temperature, seventy degrees, and stir occawhich passes part of its life cycle on sionally until it is all warmed up to seventy degrees, this will probably ly Michigan is as yet free from infes- take twenty-four hours. The cream tation by the white pine blister rust then, of course, will become sour or and growing of either white pine or ripened and when it is thoroughly ripthe bush fruits is not interfered with. ened then cool it again down to sixty degrees, if possible, and I believe you ious question whether the farmers will will have no trouble in having the but-

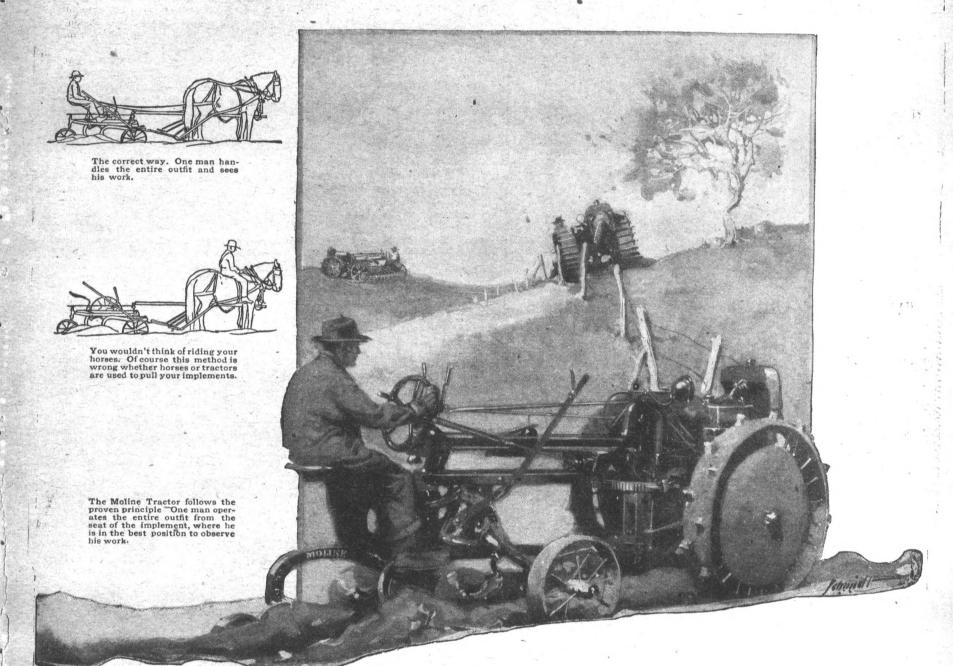
C. C. L.

APPLYING LIME.

I have twenty acres of oat ground. to be plowed and sowed to wheat this where. It does not harbor any para fall. I want to lime this soil, as it is where. It does not harbor any parasites dangerous to fruits or other acid. Can you tell me the best way to apply it to the soil before plowing, whether directly to the ground before most fascinating phenomenon, called ging. What kind of a machine seems by plant pathologists, the Heterocism of the Rusts. In short, the rust fungitor is the best, How much lime should in many cases require two different be applied per acre to insure a good.

ago noticed that wheat and other work it in well. Use from one and a grains were injured by rust when a half to three tons per acre. It is usubarberry bush grew near. Scientists ally best to drag the ground once beat a much later date found the explan- fore liming, as the spreader will work ation of this by finding the rust of easier. You will find as a rule that the wheat and other cereals produced spe- regular two-wheeled lime and fertilizer cial kinds of fruiting bodies on the bar- distributors are used most. The endberry. The observation of practical gate distributor is not used so much,

NACOLINE The Universal Tractor



In a 10-hour day one man and a Moline Tractor can plow from 7 to 9 acres; disc from 25 to 35 acres; seed from 25 to 35 acres; mow from 25 to 40 acres; cultivate from 12 to 20 acres; and harvest from 25 to 40 acres. In addition the machine will do a great variety of other work and all ordinary belt jobs.

Compare these results with those of ordinary methods. In many cases the Moline enables one man to do at least twice as much work. These facts are borne out by the results obtained by Moline owners.

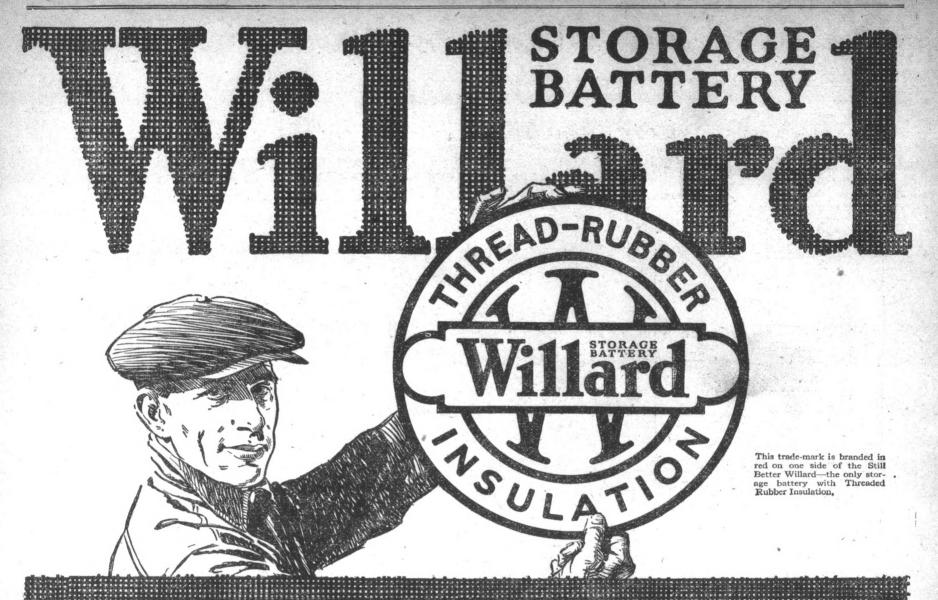
Company of the control of the contro

Moline owners in 37 states say that the Moline Tractor saves an average of one man per farm, as well as five horses, because it does all field work, including cultivating.

The Moline Tractor increases production by enabling one man to do more work, and decreases the cost of production by saving help and horses,

Profits of from \$500 to \$2200 a year, from the Moline Tractor alone, are being reported by Moline owners from all sections of the country.

MOLINE PLOW COMPANY, MOLINE, ILLINOIS



Remember!

That in the ordinary storage 1 battery the insulation is the weakest link.

That in the ordinary battery 2 both plates and insulation wear

That with the ordinary battery 3 the big expense and risk come when you have to tear down the battery and put in new insulation—perhaps with the result that you ruin the plates.

That in the ordinary battery, 4 the insulation between plates carbonizes, causing leakage of current; and perforates, causing short circuits and permitting "treeing."

That the ordinary battery has 5 to be shipped and stored wet or partly wet-aging and deterioration are almost sure to take place.

That in the Still Better Willard the Threaded Rubber Insulation is the longest lived part of the battery.

- That in the Still Better Willard the wear is cut in halvesfor Threaded Rubber Insulation does not wear out; it is not affected by the solution.
- That with the Still Better Willard the Threaded Rubber Insulation prevents this expense and risk.
- That with Threaded Rubber Insulation these faults, which greatly reduce the efficiency of the battery, cannot occur.
- That the Still Better Willard with Threaded Rubber Insulation is shipped "bone-dry," not a drop of moisture in it. It begins service in your car as fresh as when built.

Willard Service.

Of the 191 passenger cars and trucks using Willard Batteries as standard equipment, 138 have adopted the Still Better Willard with Threaded Rubber Insulation.

138 Manufacturers Using Threaded Rubber Insulation

Acason Acme All American Allis-Chalmers American LaFrance Apex Apperson Armleder Atterbury

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*Buick Cannonball *Capitol *Chevrolet Clydesdale Collier Colonial Comet Commerce Commodore Cunningham

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*Olds Oneida Oshkosh

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Great Western Hahn Hurlburt Hawkeye Haynes Henney Highway

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*Kissel Koehler Lancia Lexington *Liberty Luverne Madison

Marmon Menominee Mercer Mercury Meteor (Phila.) MHC *Mitchell

Murray McFarlan *McLaughlin Napoleon Nash Nelson

Nelson & LeMoon Noble Northway Ogren Old Hickory

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Peugeot Phianna Pierce-Arrow Premier Preston

Ranier *Reo Republic ReVere Riddle Robinson Rock Falls R & V Knight

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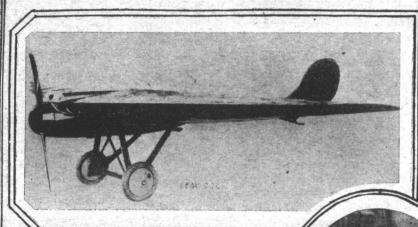
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WORLD EVENTS IN PICTURES



W. M. Tilden, of Philadelphia, enjoys a cup of tea after winning highest tennis honors in England.

Famous fisherwomen of Boulogne present French and English premiers a huge bouquet.



Planes and men who are ready to start on the long flight from Long Island to Nome, Alaska.

America's wonderful new mystery plane has forty square feet more wing surface than our best army planes, weighs less than half as much and can climb a mile in two and a half minutes.



Herr Fehrenbach, German chancellor and head of the German delegation at the Spa, Belgium, to confer on the fulfillment of the terms of the peace treaty.



Prominent English society folks watching recent international cup races from the deck of Sir Thomas Lipton's private yacht, Victoria.

It is rumored that one of the big league teams has offered \$25,000 for the services of P. Mooney, wizard pitcher of the famous House of David baseball team.

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THE VALLEY OF THE GIANTS

A ROMANCE OF THE REDWOODS

By Peter B. Kyne

CHAPTER XXI.

Upon his return from the office that. night, Bryce Cardigan found his father had left his bed and was seated before the library fire.

eh, pal?" his son queried.

manage to live till next spring."

healthy check wouldn't cure. Pen- know you've been in the fight of your somebody was going to build a log- noyance .and perhaps at a slight nington rather jolted you, though, career. You have one advantage ging-road, and regardless of who the profit." didn't he?'

to be forced to sell that quarter-I his road in the first place; in the sec- going to cover your trail, my son?" badly about it as I used to think I secure your note. would. I suppose that's because there old man."

start brewing a pot of powerful bad having an ace in the hole; but by the Southern Pacific." medicine for the Colonel."

"Son, I've been sitting here simmer- play it." ing all day." There was a note of the bench and root, I've not reached the is well taken." point where my years have begun to fox upstairs, Bryce."

line together. After dinner you trot of the cost of construction." your plan of campaign and I'll trot out

them into a perfect whole."

Accordingly, dinner disposed of, us. Accordingly, dinner disposed of, us."

build a road from here to the moon.

My Dear Cardigan: Hark to the father and son sat down together to "Your third step, then, will be to If we fail to build to Grant's Pass, our voice of one crying in the wilderness; prepare the plan of campaign. For incorporate a railroad company, under franchise to build the uncompleted then picture to yourself the unlovely the space of several minutes a silence the laws of the State of California." settled between them, the while they Then the old man spoke.



starting out.

sacrifice for those we love. And I very large; on the face of things and sion." never doubted but that Pennington according to the Colonel's very correct would snap up the property the in- inside information, we're helpless; and commented the old man, "expensive new need for money to carry on until con- hauling-contract with Pennington's jection overruled." ditions improve-almost floored your road expires, we'll be back where we jinks we have it, and we're going to

affect my thinking ability." He touched "Now let us proceed to the next point, mendous and out of all proportion to his leonine head. "I'm as right as a You must engage some reliable engithe freight area tapped." neer to look over the proposed route "Right-o, Johnny. We'll buck the of the road and give us an estimate build more than twelve miles of our letter. I claim there is more char-

mine; then we'll tear them apart, se- consider that done, and that the esti- al during the present century, we lect the best pieces of each and weld mate comes within the scope of the won't worry over it. It doesn't cost sum Gregory is willing to advance a cent more to procure a franchise to

suggested dryly. "I notice that when to hold." "We'll have to fight him in the Pennington bought out the Henderson

and his ruthlessness against you-and good enough for the Colonel is good they revert to the original owners." John Cardigan smiled. "Yes, son," you will be smashed. To beat that enough for us. Now, then, you are The Colonel doesn't builders were, he would have to fight

but when I realize that it was a case money; and in the third place he is have a dummy board of directors. 'The bird of time hath but a little course you won. And I didn't feel so because you haven't any collateral to must be a common carrier, and that's catching up with him. We have a "We are mortgaged now to the carriers are subject to the rules and we do not hurry, the mill will have to

"They are wise and just rules,"

"Well, then, since we must be a were yesterday before we sold the common carrier, we might as well Well, we can afford to draw our Giants. Pennington regards that hun- carry our deception still further and to believe his own lies. And he must breath now, and that gives us a fight- dred thousand as get-away money for incorporate for the purpose of build- talk in millions, look millions, and act ing chance, partner. And right after us. So, all things considered, the ing a road from Sequoia to Grant's as if a million dollars were equivalent dinner you and I will sit down and Colonel, will be slow to suspect us of Pass, Oregon, there to connect with in value to a redwood stump. In ad-

dream revived, eh? Well, the old "No," said Bryce, "we're going to jokes always bring a hearty laugh. old dominant fighting John Cardigan let somebody else play it for us. The People will laugh at your company, His name is Buck Ogilvy and only this in his voice now. "And it has occurred point you make—to wit, that we must because folks up this way realize that to me that even if I must sit on the remain absolutely in the background— the construction cost of such a road is prohibitive, not to mention the cost Buck on ice in a fifth-class San Fran-"Very well," agreed the old man, of maintenance, which would be tre cisco hotel."

> road during the next year, and prob- acter in a letter than in a face." "For the sake of argument we will ably not more than ten miles additionbuild a road from here to the moon. portion of the road merely lapses and spectacle of a strong man crying.
>
> We hold only that portion which we Let us assume that you have duly "I think I'll favour the fair State of we hold only that portion which we

"How about rights of way?"

who is going to parallel his logging trusts. There must be some advaning, just to encourage the lunatics. Hends value to otherwise worthless parallel his logging trusts. There must be some advaning, just to encourage the lunatics. Hends value to otherwise worthless parallel his logging trusts. Without a railroad the land is value to otherwise worthless parallel his logging trusts. Without a railroad the land is value to otherwise worthless parallel his logging trusts. Without a railroad the land is value to otherwise worthless parallel his logging trusts.

less; and as a common carrier they know we can condemn rights of way capriciously withheld-something we cannot do as a private road. Moreover, deeds to rights of way can be "Feeling a whole lot better to-day, of his truly capable mind, his wealth "Have it your own way, boy. What's drawn with a time-limit, after which

"Good strategy, my son! And cerhe replied plaintively. "I guess I'll man, you must do more than spend going to incorporate a company to tainly as a common carrier we will be moneý. You will have to outthink build a road twelve miles long—and a welcomed by the farmers and cattle-"Oh, I knew there was nothing wrong him, outwork him, outgame him, and private road, at that. That would be men along our short line. We can with you, John Cardigan, that a when eventually you have won, you'll a fatal step. Pennington would know handle their freight without much an-

that about completes the "Well, "He did, Bryce. It was jolt enough think you have the courage to parallel them in self protection. How are you rough outline of our plan. The next thing to do is to start and keep right never expected we'd have to do it; ond place, he knows you haven't the Bryce pondered. "I will, to begin, on moving, for as old Omar has it, of sacrificing you or my Giants, of morally certain you cannot borrow it, Also, my road cannot be private; it way to flutter,' and the birdshot is where the shoe pinches. Common year in which to build our road; if is a certain morbid pleasure in a real limit, and our floating indebtedness is regulations of the Railroad Commis- shut down for lack of logs, when our contract with Pennington expires."

"You forget the manager for our corporation—the vice-president stant I offered to sell. Hence his unless the lumber-market stiffens very to obey at times, but quite necessary. and general manager. The man we refusal—in the face of our desperate materially this year, by the time our We can obey and still be happy. Ober engage must be the fastest and most engage must be the fastest and most convincing talker in California; not only must he be able to tell a lie with a straight face, but he must be able dition, he must be a man of real abil-John Cardigan smiled. "The old ity and a person you can trust implicitly."

"I have the very man you mention. very day I received a letter from him begging me for a small loan. I have

"Tell me about him, Bryce." "Don't have to. You've just told me "Well, since we're not going to about him. However, I'll read you his

Here Bryce read aloud:

Golden Gate Hotel Rooms fifty cents—and up.
San Francisco, California,
August fifteenth, 1916.
Dear Cardigan: Hark to the

puffed meditatively upon their cigars. New Jersey with our trade," Bryce have constructed. That's all we want and send me a rectangular piece of white, blue, green, or pink paper bearing in the lower right-hand corner, in dark."

interests and reorganized that property
"Why?"

"Because if Pennington knows, or Lumber Company under the laws of along the proposed route will give us flourish which identifies your signature of the man the State of New Jersey, home of the rights of way free gratis and for nothing worthless are the otherwise worthless are the other than the lower right and corner, in your clear, bold chirography, the magic words "Bryce Cardigan"—with the little up-and-down hook and the landowners the little up-and-down hook and who is going to parallel his logging trusts. There must be some adventing the cost us very little, if magic words "Bryce Cardigan"—with the little up-and-down hook and the landowners the latter than the lower right and corner, in your clear, bold chirography, the magic words "Bryce Cardigan"—with the little up-and-down hook and the latter than the lower right and corner, in your clear, bold chirography, the magic words "Bryce Cardigan"—with the little up-and-down hook and the latter than the lower right and corner, in your clear, bold chirography, the magic words "Bryce Cardigan"—with the latter than the lower right and corner, in your clear, bold chirography, the magic words "Bryce Cardigan"—with the latter than the lower right and the policy of the magic words "Bryce Cardigan"—with the latter than the latte

AL ACRES-Al says "The Cows Don't Chew Gum, They Chew Tobacco."

-By Frank R. Leet



smile; twenty would put a beam in mine eye; fifty would cause me to utter shrill cries of unadulterated joy; and a hundred would inspire me to actions like unto those of a whirling dervish dervish.

dervish.

I am so flat busted my arches make hollow sounds as I tread the hard pavements of a great city, seeking a job. Pausing on the brink of despair, that destiny which shapes our ends inspired me to think of old times and happier days and particularly of that pink-and-white midget of a girl who tended the soda-fountain just back of the railroad station at Princeton. You stole that damsel from me, and I never thanked you. Then I remembered you thanked you. Then I remembered you were a timber-king with a kind heart were a timber-king with a kind heart and that you lived somewhere in California; so I looked in the telephone book and found the address of the San Francisco office of the Cardigan Redwood Lumber Company. You have a mean man in charge there. I called on him, told him I was an old college pal of yours, and tried to borrow a dollar. He spurned me with contumely—so much of it, in fact, that I imagine you have a number of such friends. While he was abusing me, I stole from his desk the stamped envelope which bears to you these tidvelope which bears to you these tid-ings of great woe; and while awaiting your reply, be advised that I subsist on the bitter cud of reflection, fresh air, and water, all of which, thank God;

cost nothing.

My tale is soon told. When you knew me last, I was a prosperous young contractor. Alas! I put all my eggs in one basket and produced an omelet. Took a contract to build a railroad in Honduras. Honduras got to railroad in Honduras. Honduras got to fighting with Nicaragua; the govern-ment I had done business with went out of business; and the Nicaraguan army recruited all my labourers and mounted them on my mules and horses, swiped my grub, and told me to go home. I went. Why stay? Moreover, I had an incentive consisting of about an inch of bayonet—for-tunately not applied in a vital spot— which accelerated rather than de-

creased my speed.
Hurry, my dear Cardigan. Tempest fidgets; remember Moriarity—which, if you still remember your Latin, means: "Time flies. Remember to-morrow!" I finished eating my over-

coat the day before yesterday.

Make it a hundred, and God will bless you. When I get it, I'll come to Sequoia and kiss you. I'll pay you back sometime—of course.
Wistfully thine—Buck Ogilvy.

P. S.—Delays are dangerous, and procrastination is the thief of time.

John Cardigan chuckled. "I'd take Buck Ogilvy, Bryce. He'll do. Is he honest?

"I don't know. He was, the last time I saw him."

"Then wire him a hundred. Don't wait for the mail. The steamer that and your friend Ogilvy forced to steal." carries your letter might be wrecked

"I have already wired him the hundred. In all probability he is now out whirling like a dervish."

"Good boy! Well, I think we've planned sufficient for the present, Bryce. You'd better leave for San Francisco to-morrow and closé your deal with Gregory. Arrange with him to leave his own representative with Ogilvy to keep tab on the job, check the bills, and pay them as they fall due; and above all things, insist that Gregory shall place the money in a San Francisco bank, subject to the joint check of his representative and ours. Hire a good lawyer to draw up the agreement between you; be sure you're right, the go head-full speed. When you return to Sequoia, I'll have a few more points to give you. I'll mull them over in the meantime.

CHAPTER XXII.

HEN Bryce Cardigan walked down the gangplank at the steamship-dock in San Francisco, the first face he saw among the waiting crowd was Buck Ogilvy's. Mr. Ogilvy wore his overcoat and a joyous smile, proving that in so far as he was concerned all was well with the world; he pressed forward and thrust forth a great speckled paw for Bryce to shake Bryce ignored it.

"Why, don't you remember me?" Ogilvy demanded. "I'm Buck Ogilvy." (Continued on next page).



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Raising The Dead

Our Weekly Serman-By N. A McCune

the promised Messiah, or whether peo- and by the fields began to improve, as ple were to look for another. He got they passed along, and continued to their sight, the lame walk, the lepers prosperous. The American party was are cleansed, the dead are raised up, approaching a Christian mission settleand the poor have the gospel preached ment, and by example and teaching it Messiah, He simply submitted the evi- in all directions for several miles. wife would consider Christianity in church a center for healing differences ized that they had not lived as guides munion. Beside him knelt a poor man, of a little unfolding life should. It shabbily dressed. The vicar whispered stand in front of the altar rail, and was beside the great duke. Wellingmade a public confession. The expres- ton heard him and administered a reforward. Is not that restoring sight for persons with God. And the dead to the blind?

American traveller was once going dealing with each other.

MAN who was much discouraged through a part of Syria on camel back. once sent a messenger to in- The country largely a waste, the peoquire whether Christ was really ple poor, the buildings but huts. By a powerful reply. "The blind receive look better, and the people were more to them." He did not say He was the had changed the face of the landscape

dence, and let His friend draw his own "The. deaf hear, the lepers are conclusions. Is this kind of work done cleansed." It is the natural function now? Or has the church lost the of the laws of God to heal. As said power? Many will instantly reply that before, faith healing is not an entirely all miracles are impossible. Others forgotten art. And the healing of rivwill declare that the church could not alries and ill will is as much a part of restore sight to the blind or raise the this program as is the healing of the dead in a thousand years. It is true body. It may be more vital, than the that the general power of healing and healing of the body. A modern writer miracle working seemed to pass away who is known in Europe as well as with apostolic days. Yet even then America says, that a Christian Amerinot all people were cured. St. Paul can and a Christian German have more says, "Trophimus have I left at Mile- in common than a Christian American tum sick." Why did he not cure Troph- and a non-Christian American. That is imus? He also states that he himself a statement which makes one think, was afflicted with a serious disorder, whether he agrees with it at first blush which he was told to bear, and which or not. One thing is certain: we are would not be healed. And we must re- not able to heal the international member also that people are healed by wounds of the world as we ought to be. faith now. Perhaps healing is not as People are still suspicioning each othcommon as it might be, if people were er. The church wants to help and is more believing. But such cures do oc- helping, but cannot command. The cur, and there can be no reasonable Council for Promoting International doubt about it. Blindness of the soul Friendship through the churches is dois healed, too. Such a cure is no less ing pioneer work, and may be laying wonderful than blindness of the optic foundations that will withstand all asnerve, and the consequences of it may saults. But one thing we must face: be a thousand-fold more far reaching. Christ never intended that Christian I went once to see a man and his wife should fight Christian, either in perabout confessing Christ and coming in- sonal combat or in war, or in comto the church. I got a cold reception, merce. We must work together, or we I went again and it was more frigid will work at enmity with each other. than before. One day a wee speciman And enmity means the old, foolish proof humanity came to live in that home, gram of hate and bloodshed all over and as Easter drew near, I thought to again. Every believer in the gospel of try once more, as to how that man and healing should strive to make his their lives. Yes, they were both eager among men. The Duke of Wellington to come into the church. They real- was once kneeling at the altar, at Comwas a happy day when they took their to the poor man to move over, as he sion on their faces had changed. It buke that the vicar probably never forcontinued to be changed, from that day got, saying that there was no respect are raised today. Men are seeing life "The lame walk." They do not run differently and living it differently, and races, necessarily, nor enter athletic that, according to St. John, is passing contests, nor scale Mount McKinley. out of death into life. The freshness But they walk. They are able to do and vigor of Christianity makes it a the normal thing. And the beauty of mighty factor today, and it will bereligious faith is, that it is normal and come more so, as men act with as it makes everything else normal. An much sense toward God, as they do in

The Valley of the Giants

(Continued from preceding page).

"I have never heard of you, Mr. Ogil- and-" vy. You are mistaking me for someone else."

"Sorry," Ogilvy murmured. "My emy look like?" mistake. Thought you were Bill Ker- "Like ready money. And if he had

Bryce nodded and passed on, hailed job-about five hundred a month." a taxicab, and was driven to the San minutes later the door opened and to do?" Buck Ogilvy entered.

Bryce," he explained as they shook wolf I spoke of a moment ago." hands, "but decided to play safe and then follow you to your office. What's do you want it done?" up? Have you killed somebody, and are the detectives on your trail?" If so, vice-president and general manager." fess up and I'll assume the responsibility for your crime, just to show you I do first?" Trained American for Hounds Babbit and Skunk bility for your crime, just to show you how grateful I am for that hundred."

"No, I wasn't being shadowed, Buck, Bryce looked him fairly in the eye but my principal enemy was coming and favored him with a lightning wink. down the gangplank right behind me,

> "So was my principal enemy," Ogilvy interrupted. "What does your en-

rick, who used to be a partner of seen me shaking hands with you, he'd mine. I'm expecting him on this boat, have suspected a connection between and he's the speaking image of you." us later on. Buck, you have a good

"Thanks, old man. I'd work for you Francisco office of his company. Five for nothing. What are we going

"Build twelve miles of logging rail-"I was a bit puzzled at the dock, road and parallel the line of the old

"Good news! We'll do it. How soon "As soon as possible. You're the

"I accept the nomination. What do

"Listen carefully to my story, anal-

yze my plan for possible weak spots, and then get busy, because after I have provided the funds and given the word 'Go!' the rest is up to you. I must not be known in the transaction at all, because that would be fatal. And I miss my guess if, once we start building or advertising the building of the road, you and I and everybody connected with the enterprise will not be shadowed day and night by an army of Pinkertons."

"I listen," said Buck Ogilvy, and he inclined a large speckled ear in Bryce's direction, the while his large speckled hand drew a scratch-pad toward him.

Three hours later Ogilvy was in possession of the most minute details of the situation in Sequoia, had tabulated, indexed, and cross-indexed them in his ingenious brain and was ready for business-and so announce himself. "And inasmuch as that hundred you sent me has been pretty well shattered," he concluded, "suppose you call in your cold-hearted manager who refused me alms on your credit, and give him orders to honor my sight-drafts. If I'm to light in Sequoia looking like ready money, I've got to have some highclass, tailor-made clothes, and a shine and a shave and a shampoo and a trunk and a private secretary. If there was a railroad running into Sequoia, I'd insist on a private car."

This final detail having been attended to, Mr. Ogilvy promptly proceeded to forget business and launched forth into a recital of his manifold adventures since leaving Princeton; and when at length all of their classmates had been accounted for and listed as dead, married, prosperous, or pauperized, the amiable and highly entertaining Buck took his departure with the announcement that he would look around a little and try to buy some good second-hand grading equipment and a locomotive, in addition to casting an eye over the labor situation and sending a few wires east for the purpose of sounding the market on steel rails. Always an enthusiast in all things, in his mind's eye Mr. Ogilvy could already see a long trainload of log: coming down the Northern California & Oregon Railroad, as he and Bryce had decided to christen the ven-

"N. C. & O.," Mr. Ogilvy murmured. "Sounds brisk and snappy. I like it. Hope that old hunks Pennington likes it, too. He'll probably feel that N. C. & O. stands for Northern California

(Continued next week).

Sunshine Hollow Items

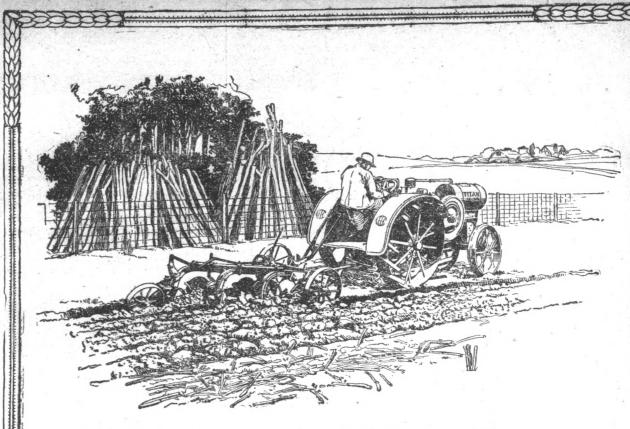
Ry Rube Rubicon

Daniel Thompson says they should have a law compelling the inspection of automobiles before they go in the country at night. No cars should be passed that do not have plenty of gas, a tire patch and a pump. Daniel works hard in the field all day and is getting tired having to dress and lay on his back under his car after midnight to drain out enough gas to get some joy rider back to the city.

Some folks should never park their little four-cylinder Nubbin next to a Bullion super-six. It makes them envious owing to the unfortuante com-A little Nubbin regults is just as nice to look out of as a big Bullion and it don't take so much gas. But it helps to keep a man satisfied if he always parks the little Nubbin near some other cheap looking buss rather than by the big Bullion.

Billy Peterson fell in the mud last week up to his ankles. It wouldn't have caused any trouble but he was wrong side up. Some folks say that it served Billy right, as he is always doing some playful stunt like dropping his sister in the cistern to hear her splash or putting a cold frog in his grandfather's bed.

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is vital in the fertilizer situation this Fall. The world is short of wheat, the farms are short of labor. Fertilizer is needed more than ever, but the fertilizer manufacturers are short of cars and labor to load cars. It is impossible to supply the fertilizer needed this fall unless the shipping season is lengthened, and this can only be done by starting earlier. not place your order now for

ROYSTER'S FERTILIZER

If you delay, you may fail to get Royster's. You may even fail to get ANY FERTILIZER.

F. S. ROYSTER GUANO CO. TOLEDO, O

When You Write to Advertisers Please Mention This Paper. handling of the new seed department stockman and feeds more than a thought of the County Farm Bureau through sand lambs each fall. Last winter one

Our Farm Bureaus

(Continued from page 137). to make the work pay large dividends. pedigreed grains.



Members of the Eaton County Bred Heifer Club.

ed a purebred Shorthorn heifer and sanitary milk, plans to have his father's farm pretty well stocked with purebred stock within a few years.

A short distance from Ralph Johnthe super-breeder and club member, who has recently purchased a pure Scotch Shorthorn heifer. Donald has a fine Poland China sow and family of pigs, flock of Shropshire sheep, White Wyandotte chickens and New Zeeland Red rabbits. Last fall he trimmed some roughage for live stock. Several carof the old exhibitors of live stock at loads of cull beans are fed to the the Eaton County Fair, and this year club members are not going to be giv- Percheron horses are some of the finen a chance to show in the breeding classes. Young Shepard is going to in Michigan. These mares are used for enter some of his stock in the breed- farm work and yield a double income. ing classes and let some of his boy Mr. King is feeding his fattening hogs friends make up the club exhibits. He an exclusive ration of cull beans and is an enthusiastic club member and a has promised to give the readers of leader among the boys.

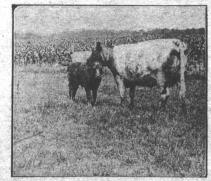
for two years, is now leader for the ers have kept as complete records younger girls. She has developed two demonstration teams of exceptional ability for demonstrating the cold-pack method of canning. Miss Robb, of M. A. C., judged the work and scored them very high in team work and neatness of canning. Interest of the entire community is being shown in the work and the meetings are well attended. The members of the Good Luck Club are Madeline Smith, Burhana Smith, Dorothy Dean, Venda Ransom, Helen Bust, Ruby Clay.

S OIL and fertilizer experiments and tions are being conducted on many farms under the direction of County uable series of experiments is the one hogs. with alfalfa for determining the relasummer.

which the pedigreed seed business of their herds. With proper supervision the county will be handled. This desuch a system of yearly testing could partment will be developed as rapidly be made far more valuable than the as possible, and every effort will be system now in vogue, and breeders made to improve the grain crops of would not have to be financial geniuses the county and find better markets for

Boys' and Girls' Club Work is re- One of the outstanding herds of Holceiving more attention since Mr. Ten- stein cattle in Michigan is owned by ny took charge of the work in June. H. W. Hancock, of Charlotte. Here we Besides the Shorthorn bred-heifer club found about fifty head of cows and he has charge of four pig clubs of forty young things, headed by Sir Peacedale members. Three miles out of Charlotte Mabel Ormsby, a son of Sir Ormsby we visited Ralph Johnson who pur-Banostine Rag Apple, one of the best chased a Duroc Jersey gilt last year sons of that famous matron, Duchess and now has a fine sow and family of Skylark Ormsby, the cow that made Minnesota famous as the home of champion Holsteins. Among the cows in the herd are such individuals as Grandview Mabel Segis, with a batting average of 31.77 pounds of butter and six hundred and eight pounds of milk in seven days. For a junior herd sire Mr. Hancock has a grandson of May Echo Sylvia, the great Canadian cow, whose bull calf sold for \$106,000 at the Milwaukee sale in 1918. George A. Hyde, the manager of the farm, knows the Holstein game and considering the fact that the herd has been founded only three years he has made an excellent showing. No effort has been spared to make the herd one of the best in the country, and Mr. Hancock is to be congratulated for bringing such good sires into the state. The plant is complete in detail and there is every equipment for handling the six pigs. Ralph has recently purchas- herd to good advantage and producing

One of the first stops after leaving Charlotte was at the farm of F. L. King, an extensive feeder of cattle, sheep and hogs, and breeder of Person's home we visited Donald Shepard, cheron horses. He has a finely equipped plant and a highly productive farm. Mr. King feeds about eighteen hundred sheep, a carload of cattle and two hundred hogs each year. The farm consists of one hundred and seventy acres, devoted primarily to growing sheep and hogs each year. Among the est work teams the writer has found the Michigan Farmer a summary of his Another club project is the Good results at the end of the feeding pe-Luck Canning Club, of West Carmel. riod. Figures of this kind should prove Agnes Martin, a member of the club valuable, inasmuch as only a few feed-



alfalfa and soy bean demonstra- Owned by Morrison Clay, of the Eaton County Junior Shorthorn Club.

Agent Decker. One of the most val- when feeding cull beans to fattening

Over near Potterville we visited tive hardiness of Grimm, Cossack, Com- Blank & Potter, breeders of Duroc Jermon and Liscomb in withstanding the sey swine and feeders of lambs. Here Michigan winters. Poultry culling dem- we found about twenty excellent brood onstrations are being given due atten- sows, including Brookwater Jane 41, tion, and Mr. Decker will make them a one of the best sows of the breed in prominent feature of his work this Michigan. The head of the herd is Oakland Premier Chief, fourth in junior Another project that is being work- yearling class at the International last ed out by Mr. Decker is that of the year. Mr. Blank is an experienced

carload of his lambs sold for fifty cents per hundred above the top at Buffalo. The farm consists of three hundred and twenty acres and the crop growing system is based upon the production of feed crops for lambs and hogs.

G. P. Phillips, of Bellevue, owns and operates a splendid stock farm and breeds Shorthorn cattle, O. I. C. hogs, Shropshire sheep and Barred Rock chickens. Mr. Phillips was not at home, but his farm and stock showed indications of careful breeding and good care and management.

Another interesting visit was at the farm of Marshall Kelly a few miles out of Charlotte. At Mr. Kelly's farm we examined a fine herd of Aberdeen Angus cattle, and looked over one of the real outstanding yearling bulls of the season. He is a son of Lapeer Blackbird and out of Marguerite Carlo. During the past year the herd has been reduced to about twenty head, and will not be exhibited at the fairs this fall. The difficulty of securing competent help and preparing the animals for the fall circuit has discouraged Mr. Kelly from making the rounds.

A few miles from Charlotte we spent a short time at Wood View Farm, where Carl Hitchcock breeds registered Holstein cattle. At present his herd numbers only eighteen head and he is



Bessie Roxy De Kol, Owned by C. G. Hitchcock.

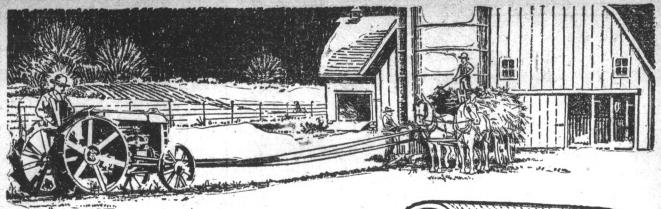
using for a sire Model Glista King Segis, a bull of great individual merit and good breeding. He is owned by a company of breeders and is being used extensively in some of the best herds in the county. All of Mr. Hitchcock's young stuff show good quality and some of his cows have made very credible A. R. O. records.

Another Holstein breeding farm visited was that of D. G. Miller & Sons, where we found one of the most promising bunches of young heifers we have looked over in some time. The herd sire is Korndyke Taurus 2, from the well-known herd of T. W. Sprague, of Battle Creek. The Millers own and operate a farm of one hundred and fifty acres, devoted primarily to growing feed crops for the dairy herd. They have a well-equipped plant and some excellent cattle in their herd.

One can gain a fair idea of the magnitude of the sheep industry in the county from the fact that more than 225,000 pounds of wool have been consigned to the State Farm Bureau Wool

ADVOCATES A NATIONAL FOREST POLICY.

In advocating a national forest policy, Charles L. Pack, president of the American Forestry Association, says "the virgin forests of the United States have shrunk to one-sixth of the original area. About one-half of the timber left is in the three Pacific states, and over 61 per cent is west of the great plains. Every year there is consumed or destroyed 56 billion board feet of material of saw timber size. The total yearly consumption of all classes of timber is 26 billion cubic feet. Our repleted forests are growing less than one-fourth of this E. E. R.



More Profits with Silageand a Little Giant Belt

Not only does the making of ensilage furnish a supply of exceptionally good, economical feed for live stock but it clears the corn field for an early start the next season. It's another step toward more efficient, more profitable farming.

And when you belt your Fordson to your ensilage cutter, be sure it's a Little Giant tractor belt that transmits the power. Little Giant belts are specially designed for exclusive use with the Fordson and combine the features that enable the tractor to develop a steady, even flow of unfailing power through its belt pulley.

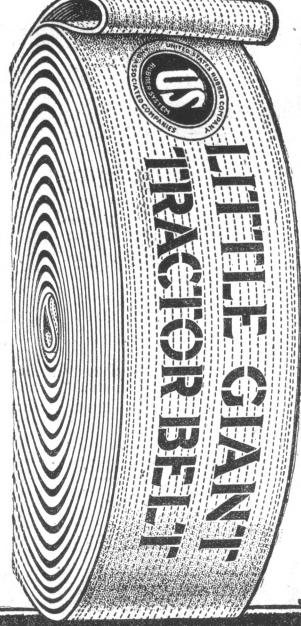
The Little Giant grips the pulley like the clutch of a giant hand. There is no slippage and wastage of power even when the ensilage cutter is overloaded. The Little Giant is an endless belt so there is no pulling out of belt ends and no delays for relacing. The Little Giant is a special treated, canvas belt and is unaffected by the moisture, heat and exposure a belt must meet in farm work. An exclusive feature is the extra stitching which resists the effects of edge wear and greatly lengthens the life of the belt.

You can buy a Little Giant from your local Fordson dealer—save the expense and delay of sending away for a belt. Ask your Fordson dealer to show you a Little Giant belt, or write us direct for complete information.

United States Rubber Company Mechanical Goods Division

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.



FREDERICK C. FOR GOVERNOR

OF THE STATE OF MICHIGAN



Primaries August 31st

- He was born on a farm and has lived on one most of his life.
- He owns and operates under his personal supervision a large well-equipped farm in Oakland County.
- He advocates the providing of certain facilities by the State for the better handling and marketing of farm products.
- He would encourage lake-to-ocean route as outlet to Michigan products and gateway for Michigan necessities.
- 5. He believes in generous treatment of service-men and their families.
- He has had broad experience in State affairs as Representative, Senator and Secretary of State and as such took great interest in advancement of child welfare, pure food laws, health laws, laws relating to good roads and the betterment of farm conditions.
- He has at heart the highest good of the State, the correlation of all its varied activities and the fullest development of its business, social and religious life.

-Advertisement





1,000,000 ROLLS (Write for Free Sam-Ple Catalog of 100 new designs and colorings.

Roll Why use Paint when 98c will paper Room 12 x 14, 9 ft. high Martin Rosenberger, 80 Rosenberger Buildin

FOR SALE: 25 H. P. Port Huron Tractor. Good condition. Detroit Automatic Scale Company, Detroit, Mich.



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 anonas.

White and Brown Leghorns, now laying; Anconas, Minorcas: Bocks, Reds and Wyandottes. Let us tell you what we have.

Cockerels—English White Leghorns only; no others STATE FARMS ASSOCIATION, Kalamazoo, 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.

BARRED ROCKS. Eggs from vigorous early maturing stock from heavy laying strain. \$2 per 15, \$5 per 46. Prepaid by parcel post. R. G. Kirby, Route 1. East Lansing, Mich.

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

CHICKS

S. C. White Leghorn growing youngsters six to twelve weeks old, also Adult Birds at a bargain. SUNNY BROOK POULTRY FARM, Hillsdale, Mich.

CHICKS

Rose and Single Comb R. I, Reds, Barred Plymouth Rocks, \$18 per 100, \$9 per 50, \$4.75 per 25, prepaid and safe delivery guaranteed. Catalog free. Last hatch July 27th. INTERLAKES FARM, Box 39, Lawrence, Mich

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

Fowler's Buff Rocks. We are now booking or cockerels left. B. 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

Pullets and Cockerels

Order now for fall delivery. Anconas, Leg-horns, Minorcas, Reds, Bocks, Wyandottes. CRESCENT EGG COMPANY, Allegan, Michigan.

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

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

H. H. JUMP, Jackson, Michigan,



After the tire has exploded it is too late.

Find out if it needs more air BEFORE the blow-out happens.

To do this, you need a



Our Boys' and Girls' Page

My Crop of Beans

By Clarence Mallison.

Mallison.

Our club was then named the Arcadia Successfulists, of which we are all very proud, as, well as our county agent.

The object of the Boys' and Girls' Clubs is to create a greater interest among the coming generations and to encourage the boys and girls to stay on the farm.

The reason that I enrolled as a find that it is.

The bean crop is of very great importance to the state of Michigan because we now hold one very import- worked. ant place in the bean production of our country. Beans are a profitable crop to raise in this country, not only for the value of the crop of beans, but for the value which is received from the nitrogen as the wheat plant does.

My plat where my beans were grown is located in the corner of the second forty acres of land in section thirtyfive, Arcadia township, Manistee county. The soil is sandy with a clay subsoil about four feet below the surface. When I made up my mind that I wanted to grow beans, I rented an acre of land from my father which I was to get after the peach stumps had been removed. Then I manured the land at the rate of seventeen loads per acre and then proceeded to plow it. The soil was not just right for beans because sod should be plowed in the fall, June. I watched the plat day by day, "The Arcadia Successfulists." expecting to see my beans start to germinate, but each day the sand grew hotter and hotter until the second day of July, when we had a shower which broke the summer's drought and my beans came up and made a very prober, when they started to ripen and turbances set up in space or in the

UR club was organized by Mr. were ready to be harvested October 5. Knopf, our county agent, on May As my beans started to ripen I watch-26, at the Arcadia school house, ed the beans which ripened the more and the following officers were elect-quickly and were filled the best, and ed: President, Sadie Kirchmeyer; saved them for seed. My crop of beans vice-president, Marvin Werle; secre- is not all threshed yet but I have tary, Irma Mallison; treasurer, Agatha enough of them so that I can estimate Scheuren; local leader, Mrs. Bertha quite accurately the amount of beans which are not yet threshed. My ex-

penses were as ronows.	
Rent of land\$	5.00
Cost of seed	1.45
Cost of getting the plat ready to	
plant	3.00
Cost of planting	.50
Cost of cultivating	.60
Cost of manure	5.00
	the same

I did not have to hire any horses to member of the bean club was that I do the heavy work as I own two. The wanted to learn more about raising club has done many things for me that beans, and to learn whether or not it will be of value to me in all of my is profitable to raise beans. Which I future. Some of the things which I received from it and the county agent

To keep a record of my time that I

Some parliamentary law.

The value of cooperation with other members.

It has also taught me how to raise better beans and I have found many next year's crop, providing that is a places where I can benefit not only crop which requires an abundance of myself but our other farming. Just through my experiments with my acre of beans.

If I had it to do all over again (which will be next year), I would try to make our club meetings more interesting so that more of our parents will realize the fact that all of us club members are working for some definite point and then they will become more interested and give us a better show to reach our point, which we all have in view, and try to make the country a more sociable place with the help of the club members.

Our club is not going to die during this winter but we are going to keep where one does not wish to plant any it up and organize clubs which will be other crop before planting beans. Af of value during the winter months. ter it had been plowed I harrowed it Next spring we are going to organize twice and then just before it was plant- another club which will have many ed I harrowed it, then marked and new members which will help us to planted it the twenty-fourth day of make our club worthy of its name,

WIRELESS EXPLAINED.

ILE-LONG waves which travel so fast that they could go round the world seven times in less than a gressive growth with the aid of three second—these are the things we are cultivations until the last of Septem- reading about daily, the electric dis-



Hot Lunch Club, Maplegrove School, Wayne County.

"aether" which fills space, by wireless aerials spotted all over the world.

If you strike the middle C on a piano, and the C an octave below, a person standing some distance away will hear both notes simultaneously, yet the middle C sets up twice as many air waves a second as the lower C; the sound travels at the same speed, the wave-length is different.

Just the same with wireless signals. One transmitting apparatus may send out waves one thousand metres long, another five thousand metres. Both travel at the same rate, about 186,000 miles per second, but the longer waves are more suitable for long-distance transmission.

A metre is rather more than a yard and the early wave-lengths employed in wireless were three hundred and six hundred metres; the former for short distances, the latter for longer ones. Very much longer waves are in frequent use today.

It is well known how a certain glass, cup or vase in a room will ring in sympathy with a certain note struck on the piano because if struck or tapped it would vibrate itself and give out the same note.

The phenomenon of resonance will cause anything to vibrate whose natural rate of vibration happens to be that of the note struck. A tuning-fork, for instance, which gave the note C would vibrate-very faintly, no doubt -if held near a musical instrument on which the same C was struck.

Now, imagine a tuning-fork, the prongs of which could be lengthened or shortened at will, so that whatever note was struck, i. e., whatever length or musical wave was sent out-you could adjust the fork to respond to it. Translate sound wave phenomenon into electro magnetic (or wireless) wave phenomena, and your tuning-fork can make your receiver respond to whatever length of wireless wave the station is sending out.

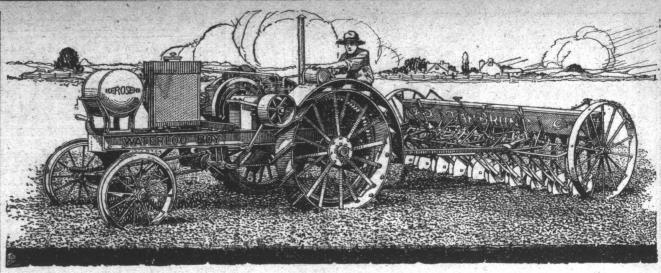
For good technical reasons wireless wave-lengths are measured in metres, and when we read of a one-thousandmetre wave it means that the length of each disturbance sent through space with the inconceivable velocity of 186,000 miles a second is some 1,093 yards in length. Seventeen of such waves would bridge the space between two wireless stations ten miles apart. The receiver would tune his circuit to respond to a one-thousand-metre wave-

These waves do not follow each other with the grandiose solemnity of sea waves; in wireless telephony one hundred thousand of them may come flashing by in the course of a second. So delicate is the receiving apparatus of today that little interference is caused through the hundreds of messages that are crossing space at one and the same time, with many a different wave-

Methods of tuning are highly refined, though intensely simple. Directional devices have also helped considerably in this way. Yet it seems wonderful that, while a separate pair of wires is needed for every telephone circuit at work, innumerable people could speak by wireless through the common aether without interference, save that "listeners-in" would be able to gather up innumerable fragments of

Little Nora Templeton has written a parody on the song about the end of a perfect day. Her piece is called, "This is the end of an eight hour day." It ends up with the suggestion that her Dad has got to get right out and work eight hours more if he ever pays off the mortgage and keeps up the installments on the phonograph.





Service That Satisfies-Ask Any User.

THE dependable performance and economical operation of the Waterloo Boy Tractor back up the good buying judgment of its many owners. For more than five years it has been "making good" in the hands of thousands of satisfied users. Users have found that they can count on the Waterloo Boy to give them real service.

Talk to a farmer who owns a Waterloo Boy. Ask him about his tractor. He will tell you about the dependable power of the 12-25 H.P. engine, and that it satisfactorily performs year 'round, heavy duty service. He will tell you that you can bank on that engine to stick with the work has pilled up and with you when the work has piled up and everything needs doing at once—that it "sees him through."

Ask him what it costs to run the Waterloo Boy. His figures will surprise you. An average of two gallons of kerosene per acre in plowing. A gallon and a half per hour on

(F)

belt work. Two quarts of lubricating oil per ten hours work.

The Waterloo Boy is extremely simple in construction. Conveniently placed inspection plates make it easy to get at all parts from a standing position. A drawbar shifting lever gives you the correct hitch on all tools, eliminating side draft. A pump, fan and radiator insure positive cooling, and hold the motor at the proper running temperature.

There are many other features of Waterloo Boy economy and service. Investigate the Waterloo Boy before you buy.

Write for our booklet fully describing this practical, economical tractor. Send a postal card today. Address John Deere, Moline, Ill., and ask for package WB-826.

MARK OF QUALITY MADE FAMOUS BY GOOD IMPLEMENTS

AM SEPARATOR WITH PERFECTED DISC BOWL

Perfection-

Is it too much to expect?

A machine may be said to have reached perfection when, through mechanical and engineering excellence, it renders a degree of service in moneyand labor-saving never before attained.

Years ago, the United States Cream Separator reached the peak of perfection as a money saver, by winning in open competition the world's record for close separation—a record that still

The perfecting of the United States Disc Bowl is the last big finement, the labor-saving features of the United States challenge and welcome all comparisons.

Those who know the case of operation, the simplicity of cleaning, say the United States represents perfection in the most important detail of milk handling.

Write for literature today—but be sure to have the United States dealer near you show the machine itself.

Vermont Farm Machine Corporation
Bellows Falls, Vt. Chicago, Ill.

Oakland, Cat.

Salt Lake City Portland, Ore.



Farm Help Problem Solved

In the first place, a Litscher Lite plant on your farm means unlimited electric current for incandescent lights in the barns and home. It means modern electrical appliances such as electric washing machines, irons, fans, vacuum sweepers, percolators, toasters - even home movies. In the second place, a Litscher Lite plant also offers you sta-Cream separators, fanning mills, feed choppers, pumps, (thus affording modern bath rooms), churns, milkers, hair clippers, are operated by the Litscher Lite plant.

The Litscher Lite plant is designed to operate without attention. It requires only oil, water and kerosene fuel to keep it running, and will give you modern illumination, plus farm labor power.

C. J. LITSCHER ELECTRIC CO., Distributors GRAND RAPIDS, MICHIGAN



The Humphryes Mfg. Company, Mansfield, Ohio

The Michigan State Sanatorium-Training School For Nurses

Offers a two years course of special training in in-stitutional Tuberculosis Nursing. A prescribed curriculm is followed. Applicants must be eighth grade graduates, and eighteen years of age. eighteen years of age.
Allowance first year \$150.00 second year \$225.00 Board,
room and laundry, and uniform cloth furnished.
Comfortable Nurses Home.
Graduates, are receiving from \$60.00 to \$85.00 per
month in Institutional work.
For further particulars address, Superintendent of
Nurses,

Michigan State Sanatorium, Howell, Mich.

Good Reading

OFFER No. 118.

The Michigan Farmer, one year.. \$1:00 Power Farming, one year 1.00 Chester-White Journal, one year 1.00

Total value\$3.00

All for \$2.00.



World's Best

Samples &

Roofing Book

Woman's Interests

The Chatham Conference

done by the clubs of the northern College.

ranged:

Home-keeper?" Miss Edna Smith, for distribution. state leader of home demonstration Mrs. Brearley, Schoolcraft county. know materials, layette. 'Helps in Home Sewing," Miss An- Free instructions in simple processes VanHeulen, state club leader, girls' and from 4:00 to 6:00 p.m.

H OUSEWIVES of the northern peclubs. Garment-making demonstra-ninsula and home demonstration tion, Girls' Club, Iron county. "Meworkers up there, are looking forward chanics of the Household," illustrated to the housewives' conference to be lecture, Miss Pratt, home demonstraheld in Chatham, Michigan, August 12. tion agent, Chippewa county, and Miss Two thousand visitors are expected, Sylvia Richardson, home demonstraand there is to be a general round-up tion agent, Gogebic county. "Home of extension workers, with lectures, Milinery," Miss Helen Arms, clothing demonstrations and exhibits of work specialist from Michigan Agricultural

Milk exhibits will show the value of The following program has been ar- milk in relation to health and its place in the diet. Milk beverages will be "How Can M. A. C. Best Serve the given away. Recipes will be printed

Clothing exhibit from clothing club, agents. "Home Demonstration Agent Dickinson county, will show remodeled Work in Houghton County," Mrs. Rice, garments, remodeled hats, required Houghton county. "Food Study Clubs," garments in girls' club work, how to

tonio, Dickinson county. "Girls' Clubs of millinery and decorative stitches in Northern Michigan," Miss Barbara will be given from 10:00 to 12:00 a. m.,

Michigan Home Agents Organize



The picture shows Miss Waldron, Miss McElhenney, and Miss Rogers on the steps of the Women's Building at the Michigan Agricultural College.

attended the recent women's confer- secretary-treasurer. The ence at East Lansing organized the committees were appointed: Michigan Home Demonstration Agents' Association. A working organization was affected and plans discussed whereby the association could be helpful in promoting extension work in the

Florence McElhenney, of Houghton Coral Havens, milk specialist.

O promote home economics work county, vice-president, and Miss Helenin Michigan the home agents who son Simonson, of Dickinson county, following

> Publicity.-Miss Marian Rogers, chairman; Miss Helen Simonson, Miss Blanche Clark, and Miss Coral

Fair.-Miss McElhenney, Miss Wal-Miss Clara Waldron, of St. Clair dron, Miss Aurelia Potts, assistant county, was elected president; Miss home demonstration leader, and Miss

Housewives August Calendar

September 7. If new clothes must be od will keep as long and as well as got, plan for them now. If the old that done by cold-pack, and most housesuits will do, look them over and sort wives who are used to that method out those which need a stitch.

minutes.

School reopens in exactly one month, Fruit done by the open kettle meththink it requires less time. Care must Take care of blackberries and huck- be taken to see that all utensils are leberries. If you use the cold-pack thoroughly sterilized and only new method in canning these fruits use a rubbers are used. Do not boil the fruit medium thin syrup. To make, add two until it is a mush, and can only two, quarts of water to three quarts of sug- or at most three, quarts at a time. A ar and boil five minutes. Sterilize all half cup of sugar to a quart of fruit is cans, tops and rubbers thoroughly be enough for these fruits. Let the fruit fore packing, and process-boil fifteen boil up well, stir down, being careful not to crush the fruit, let boil up again.

and seal at once in the hot, sterilized

Blackberry jam is nicer if the seeds are removed. To make this way, look over berries, wash, put on stove with just enough water to prevent sticking, heat through, and then press through sieve. Add half as much sugar as you have fruit, by weight, cook one-half hour and seal.

Black current jam is often pleasing to convalescents. Stem and wash the currants, crush slightly, add pound for pound of sugar and let stand over night. In the morning, boil one-half hour and seal.

Blueberry jelly is uncommon, but is popular with those who like a sweet jelly. It may be made as any jelly made from small fruit, using equal measures of sugar.

Primary election, last Tuesday, August 31. To nominate candidates for governor, lieutenant-governor, state senators and representatives, congressmen, all elective county officers except county commissioner of schools, to choose delegates to county conven-

MEMORY VS. IMAGINATION

"When my boy was only four years old, I began to punish him every time he told a lie. It took great persistence to cure him, but now he is the most truthful child you ever knew. You can depend upon his word every time." The father spoke with great pride, ignorant that the merry little lad next door who was the companion of his own sullen boy had also passed through three years of "romancing" but with no punishment for lying and consequently no unhappy memories to carry into later life.

Every little child passes through a mental stage when he finds it difficult if not impossible to distinguish between memory and imagination.-National Kindergarten Association.

CANNING CORN ON THE COB.

I would like to know the best method of preserving sweet corn. I have heard of packing the corn (on the cob) in a barrel and pouring in a brine. Do you know if this is satisfactory, and if so, how much salt is required?

A. W. C.

I have never heard of packing corn cold pack. To can on the cob, remove husks and silk, blanch (plunge into boiling water), five minutes. Remove and plunge at once into cold water. Pack in sterilized jars, add one teaspoon of salt and one of sugar, fill with boiling water. When all the cans have been filled and entered into the canner, cover the canner and boil four husks and silk, blanch (plunge into boiling water), five minutes. Remove for our up-to-date spring and summer 1920 catalog, containing 550 designs of ladies', misses' and children's patterns, a concise and comprehensive article on dressmaking, also some points for the sizes: 2, 3, 4 and 5 years. A 4 year dressmaking, also some points for the needle (illustrating thirty of the various, simple stitches) all valuable hints to the home dressmaker. hours. Remove, screw tops on tight, invert to see if they leak, and store in a dark place. Water in the canner should be kept an inch above the tops of the cans and be boiling all the time. Can off the cob the same way, cutting the corn off the cob with a thin, sharp knife after it has been blanched and plunged into cold water.

Most everybody likes ice cream and it is a good food for most anyone, too. Here is a very handy way to make without a freezer. Whip the cream, add sugar and flavoring. In freezing add sugar and flavoring. In freezing weather put outdoors in a covered sizes, 1, 2, 3, 4 and 5 years. A two-dish. In warm weather pack in ice year size will require 2½ yards of 36-inch material. and salt. No stirring will be necessary. The following quantity will provide dessert for four: one cup cream, three teaspoons confectioner's sugar. and one teaspoon flavoring. A lard pail is a good dish to use for making and freezing.-Mrs. H. H.

A teaspoonful or more of strained honey in whipped cream instead of sugar makes a delicious substitute, gives the cream a fine flavor and also causes it to remain firmly whipped. Mrs. J. J. O'C.

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The making of fine flour into bread-known for ages as the "staff of life"—is a more scientific process than most people realize. They take flour for granted. This can safely be done with

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inch material. Price 12c.





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flouncing 15 inches wide. Price 12c.

No. 3263—A Comfortable Apron. Cut
in four sizes: Small, 32-34; Medium,
36-38; Large, 40-42; and Extra Large,
44-46 inches bust measure. A Medium
size will require 4¾ yards of 36 inch
material. Price 12 cents.

No. 3270, Girls' Blouse and Skirt.
Cut in four sizes, 8, 10, 12 and 14 years.
A 12-year size will require six yards
of 36-inch material for the blouse and
skirt of one material. The skirt alone
requires three yards of 36-inch material. Price 12c.

Summer Care of Sheep

months. If the sheep are healthy and periments. It is very important that furnished with the kinds of feed best both the ewes and lambs have plenty adapted to our corn belt farms they of good feed during the last summer lambs will make rapid gains, the wool breed more regularly if they are in will make good growth and they will good condition at mating time, and the pay good profits. Almost any good lambs will make better gains when fed farmer can succeed with sheep during a grain ration during the late fall and the fall, winter and spring months, early winter. Pasture crops make Then the chief problems are housing cheaper gains than grain feeds, conseand feeding, but throughout the great quently every effort should be made to corn belt states and further south, bring the ewes and lambs through the plans must be made to guard against pasture season in good condition. parasite infection.

While these stomach and intestinal parasites can be dislodged by gasoline, coal tar creosotes and standard vermifuges, the dosing involves risk and exfeeders have been relating their pense and is seldom effective in clean-experiences in preparing beef cattle for ing up the pests. Successful shepherds the market and the methods used, and agree that prevention is not only bet- in some things there is general agreeter than cure, but that is the only ment. For instance, all agree that way to secure an unchecked growth on stock feeders should put up as much

and lambs the corn belt farmer should ly in March or April. Another stocksow oats and peas, clovers, grasses, al- man follows the plan of sowing a mixfalfa, rape, rye, vetch and the like and ture of timothy, clover and bluegrass lambs may graze ahead of the ewes stock. Another highly successful feedand change the pasture every eight or er owns a good-sized tract of straight ten days in extremely warm weather timothy meadow, but he never makes and every two weeks when the weather it into hay until the plant is in its secis cooler. In this way the eggs of the ond bloom. parasites that are discharged on the grass in the dung of the ewes do not have time to hatch before the lambs are changed to a clean field. By taking these precautions during the period from May 15 to September 15, there outlook, there seems to be no reason will be little danger of the lambs be- why the fortunate owners of thrifty, coming infected. It is during the warm healthy young hogs should take a pesweather that the worms develop fast simistic view of the market. The comand the lambs become infested.

fined in small yards at night take care date were only 14,380,000 hogs, comto keep them in a shed or yard where paring with 16,485,000 for the corresno grass grows so that the excrement ponding time last year and 15,220,000 will not infect the grass where the two years ago, and it is evident that lambs will graze. Doing this and pro- there is no excessive supply left in the viding clean pastures will secure ap- states comprising the corn belt. Like proximate, if not complete, immunity cattle, the ruling market prices for from the injury of parasites. Informa- hogs are much below those paid in retion as to the habits and characteris- cent years, but they are far higher tics of these parasites and methods of than in years prior to the war. One safeguarding the flock may be obtain- year ago the best hogs sold on the ed by sending to the Department of Chicago market at \$23.30 per one hun-Agriculture at Washington.

have access to it at all times. Many ago at \$10.15 and five years ago at experienced shepherds mix salt with \$7.90, with common lots fetching as air-slaked lime, a little more lime than low as \$6.00. salt, to prevent indigestion and bloat when the sheep are changed to new found in the falling off in the exports pastures. On some farms tobacco of provisions because of the unsatisstems are dipped in a strong salt brine factory condition of foreign exchange. and no additional salt is given to the Earlier in the year such exports were sheep. This helps to control parasitic running far larger than a year earlier, infection and is beneficial to the ewes but now this is eversed. During a reand lambs. In some parts of the south cent week the exports from North Amtobacco stems are fed quite liberally erica included 7,723,000 pounds of lard, and the ewes and lambs are compara- these comparing with 10,472,000 pounds

ture and forage crops it will seldom For the same week the exports of curpay to feed any grain feed, unless the ed hog meats amounted to 13,017,000 lambs are being conditioned for the pounds, comparing with 9,700,000 summer market. Pumpkins planted in pounds a week earlier and 73,347,000 the corn field make an ideal supple- pounds a year ago.

O one thing contributes more to by itself or with corn will furnish ideal the profit of sheep raising than fall pasturage for the ewes and lambs. a safe and sane system of hand- Soy beans sown with corn have given the flock during the summer excellent results in many feeding exwill keep in good flesh condition, the and early autumn. The ewes will

CATTLE FEEDING METHODS.

silage as possible, and it seems to be English shepherds rely on change of pretty well agreed that concentrated pasture and liberal grain rations to feeds are advisable in fattening highcarry the lambs past the danger point. class beeves. Another item in which Good feed and common salt are the they all agree is that great care should best remedies. England has a climate be exercised in buying stock cattle, and that is more favorable to parasites that while poorly bred stock should be than the corn belt, but by providing avoided, it is unsafe to pay fancy pricclean forage and dealing out grain at es, although there are stockmen who critical times the lambs do not suffer make it pay. One expert says he never from this menace. It is time for corn feeds his cattle during the winter, but belt farmers to study the problem of supplies plenty of roughness at that guarding against these parasites in-time, and when the spring opens places stead of dallying with losses that are them on full feed. He is in the habit consuming the profits from their flocks. of buying stock cattle in January or To provide safe pastures for his ewes February and begins feeding intensivekeep the fields fenced .so that the to obtain the best possible hay for his

THE HOG MARKET.

Taking into consideration the hog supply and demand and the future bined receipts in the seven principal If the ewes and lambs are kept con- western markets for the year to late dred pounds, two years ago at \$18.95, Salt should be where the sheep can three years ago at \$16.30, four years

The single disturbing feature is tively free from internal parasites. a week earlier and 25,431,000 pounds If the ewes and lambs have good pas- for the corresponding week last year.

ment for the fall pastures. Rape sown Prices for provisions are still very write.



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ARE you taking the long chance of your barn being struck by lightning, your stock or family killed, your barn and equipment destroyed?

If your barn is not properly rodded, you are taking an awful and unnecessary risk. Most of the barns that burn are set afire by lightning. Insurance and Government statistics prove that a barn properly rodded cannot be burned by lightning.

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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 29505) 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)

Three registered Guernsey bull calves, May Rose I breeding, closely related to Spottswood Daisy Pearl, Dolly Dimples, Langwater Nancy, Langwater Hope, Langwater Daisy and imported Itchen Daisy 3rd, cows that have the higher milk and butter fat production of the breed Calves sired by Albany's King of Anna Dean Farm; his grand dam Spottswood Daisy Pearl, Alec Harper, *Edward Lowe, Robinson Rd. Grand Rapids, Mich.

SPRING DELL FARM GUERNSEYS

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

CUERNSEYS. Federal Inspected. Headed by Conly son of Carrie of Hillhurst exchampion of A. A. class, 7 bulls under 10 mos, old and any 10 of 25 reg. females for sale. Write or come and see. G. W. & H. G. Ray on Electric R.R., 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 15,100.10 milk, 758.90 fat.

GUERNSEYS REGISTERED BULL CALVES Containing blood of world champions.
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Guernseys Five pure bred Guernsey Bulls. Write your requirements. WALTER PHIPPS FARM, Geo. E. Currie, Mgr., 80 Alfred St., Detroit.

Holstein Cows First as Money Makers

The day is passing when milk can be produced at a profit by a herd of mongrel cows. Look the fact in the face and study the methods of progressive dairymen.

Wherever the interests in dairying is most active and most intelligent, there the purebred Holstein stands first. And every month adds to her prestige as a money maker.

If you mean business, why not get your start before the demand increases still more?

Send for Free Illustrated Booklets.

THE HOLSTEIN-FRIESIAN ASSOCIATION 164 Hudson Street Brattleboro Vermont.

high, although they have had a big fall within a year. Within a short time pork has sold for \$25.20 a barrel, comparing with \$55.75 a year ago, and similar reductions have taken place in prices for lard and other products. Unfortunately for consumers, retail butcher shops fail to reduce prices accordingly. There is a large call for fresh pork products, and their consumption is larger than might be expected in view of their dearness.

UPPER PENINSULA FARMERS' ROUND-UP.

P LANS have been completed for the Second National Farmers' Roundup at the Upper Peninsula Experiment Station at Chatham, Michigan, on August 11-12. Superintendent D. L. Mc-Millan, of the Chatham Station, advises us that this round-up promises to be the greatest agricultural meeting that has ever been pulled off in the upper peninsula. A large number of farmers are expected to attend from every county in the upper peninsufa, and a few from lower Michigan and Wisconsin. All the different agricultural organizations in the upper peninsula are cooperating with the station in putting on the program. We think probably it is their plan to put on a two-days' summer camp for their members. This camp is to be situated on the station farm.

The first day with the boys will be a day of special instruction in live stock and crops work to finish up the preliminary work that has been done with the different clubs in their respective counties preparatory to take their final live stock judging work on the following day. As a special inducement for very careful work, valuable live stock prizes have been offered by the station. The team winning the first prize in all the live stock work will be sent to Detroit to the State Fair to compete with other clubs in live stock work there.

The Home Demonstration Agents and the Girls' Club Leaders are planning a special program for the two days for the women and girls. The county agents, under the direction of Mr. J. W. Weston, have planned a complete program for their work.

Alger county is making extensive preparations to entertain the large crowd that is anticipated, to a big barbecue dinner for the noon hour of the twelfth. They have ordered an eight-hundred-pound ox for the occasion and Mr. Deagon, the prison chef, will have charge of the feed. Their menu is meat, baked beans, mashed potatoes, buns, sweet corn, ice cream, and coffee.

During the forenoon, stump blasting demonstrations will be in operation, also dairy demonstrations in charge of Mr. J. A. Waldron, dairy specialist from the college, sheep and hog demonstrations in charge of Professor George Brown, crops demonstrations in charge of G. W. Putnam, Crops Experimenter of the Upper Peninsula Experiment Station, and Home Economics Work in charge of Home Demonstration Leaders.

Directly after the big barbecue dinner a speaking program will be given. On this program are President F. S. Kedzie, Dean R. S. Shaw, Director R. win, Hon. Jason Woodman, Dr. Eben Mumford, Mr. R. A. Turner, of the Michigan Agricultural College, and Sales Mgr. a handicraft demonstration given by the McMillan Handicraft Club. On the night of the eleventh the Alumni Association are planning a feed and a big social open air meeting in the experiment station grove.

NEW MICHIGAN VENTURE.

I T is learned that just as soon as it becomes possible to make purchases

O. I. C's Eight young boars and spring pigs

OLOVER LEAF STOCK FARM, Monroe, Mich. becomes possible to make purchases of wire fencing in large amounts, the packing firm of Morris & Co. will be-

THE READY RATION FOR DAIRY COWS **Larro Brings Prosperity** to the Dairy Farm The dairymen who feed Larro are unusually successful because they are operating on a certainty. There is no chance involved in feeding Larro because the Larro guarantee reproduced below means just what it says—you get more milk or you get your money back. This is the same guarantee of more milk which has stood back of Larro for seven years. To the man who is not yet a Larro user it is an absolute promise of better results from his cows—to the veteran Larro user it is double assurance that Larro today is the same as it was in the beginning—that its quality will never be changed. If Your Local Dealer Does Not Carry Larro Get in Touch With Us at Once The Larrowe Milling Company, 512 Larrowe Bldg., Detroit, U.S.A DEALERS: Larro sold on a basis which means constantly infarro-feed creasing sales for you. Write for proposition. Guarantee PRODUCTS

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



HAVE started thousands of breeders on the road to success. I can help you. I want to place one hog from y great herd in every community where I am not already rep-sented by these fine early developers—ready for market at an suffice of white for my plan—" More Money from Hogs." 6. S. BENJAMIN, R. F. D. 10. Portland, Michigan

O. I. C. & Chester White Swine Strictly big type with QUALITY. Spring pigs own ready to ship. Never had better ones. Remember I was breeding Big Type 29 years ago. They have a right to be big. Write us for prices.

NEWMAN'S STOCK FARM, R. I. Marlette, Mich.

Central Mich. O. I. C. Swine Breeders Ass'n. Hers of all ages of popular blood lines. Every

Hogs of all ages of popular blood lines. Every

DR. H. W. NOBLES. Coral, Mich.

O. I. C's. One Sept boar. March farrowed pigs of either sex.
O. J. THOMPSON, Rockford, Mich.
O. I. C's A few choice late fall and winter websers also a fine two year old boar. WEBER BROS., R. No. 2. Royal Oak, Mich.

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. 5 last fall boars and 15 last fall gilts bred for Also this springs pigs not akin. ½ mile west of depot. Citizens phone 124. Otto B. Schulze, Nashville, Mich.

O. I. C's. Spring pigs ready for shipment. Splendid to stock, I ship C. O. D., pay express and register in buyers name. CHAS. KING, Melvin, Mich.

MILLER Meadow's L. T. P. C. boars all sold. Gilts sired by General Jones and bred to our young boar Alaska, address CLYDE WEAVEB. Ceresco, Mich

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

.. S. P. C.

One 400 lb. sow and 7 pigs by side, price \$100.00. One 275 lb. gilt and 6 pigs by side, price \$35.00. Two choice boars. H. O. SWARTZ, Schoolcraft, Mich.

Big Type Poland Chinas Our herd is representative of the best in Big Type. The \$40,000.00 "The Vankee", the \$50,000.00 "The Classman" and the priceless "Giant Buster" are all represented. We saim to keep up-to-date blood lines and only quality stuff. Boars for sale now PUBLIC SALE OCT 26th. WESLEY HILE, R. 6, Ionia, Mich.

Bred Sow Sale at Fairgrounds August 5th. Carey U. Edmonds, Hastings, Mich.

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

BOARS! Oh Boys!

Sons and grandsons of the Mighty Giant Buster. The big boned useful kind. Priced for a quick sale. JNO. C. BUTLER, Bell Phone, Portland, Mich.

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

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

Big Type Polands all sold out. Watch this ad for further announcements. Breeding stock for sale in season. L. L. CHAMBERLAIN, Marcellus, Mich.

L EONARD'S B. T. P. C. bred sows all sold. Order booked for bo ar pigs at weaning time from Mich. Champion Herd. E. R. Leonard, R. 3, St. Louis, Mich.

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

Lindhurst Poland Chinas

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

6 th ANNUAL P. C. Bred Sow Sale March
1920. For particulars write
W. J. HAGELSHAW, Augusta, Mic

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

Poland China Brood Sows Bred for May and June farrow, \$50.00 Maplewood Stock Farm, Allegan, Mich.

B. T. Poland China pigs ready for shipment sired by Orange Buster. White Points Chub. Joseph L. Hickey, sales mgr., R.3, Vermontville, Mich.

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

STEUBEN'S HAMPSHIRE FARM Angola, Ind

Edgewood Hampshires All bred gitts sold. Now dooking orders for gitts bled for fall farrow, and pigs for pig club work only. Depew Head, Edgewood Farm, Marion, Ohio.

Type Poland Chinas nothing for sale at present, Spring pigs doing fine.
A. A. FELDKAMP, R. 2, Manchester, Mich.

BACON The highest priced pork product. Yorkshires are ideal bacon hogs. For sale, spring pigs, both sexes. WATERMAN & WATERMAN, Packard Rd., Ann Arbor, Mich.

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

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

HORSES

BAY MARE

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

Percheren Stallions and mares at reasonable prices; inspection invited.

F. L. KING & SON, Chartlotte, Mich

gin stocking up a mammoth tract of land in the great cut-over region of Michigan near Cadillac. The firm has bought about 18,000 acres of stumpage lands and plans on purchasing 10,000 acres more, it is stated by E. V. Morgan, who is manager of Morris & Co.'s Michigan ranch interests. It is the plan to fence the tracts of land as quickly as the wire fencing can be purchased. The plan at first was to stock the lands with sheep and build up a flock of possibly more than 100,000 head. The shortage of wire has caused a change in the plan, and it is now likely that the tracts will be first stocked with cattle.

eterinary.

CONDUCTED BY DR. W. C. FAIR.

Bunches on Body.-My eight-year-old mare is troubled with bunches on body, which are much like the result of beesting. She seems to be in good health. H. W. H., Holland, Mich.—Give her one dram of potassium iodide in drinking water twice a day. Feed her plenty of grass and perhaps less grain. She seems to be in good health.

Rheumatism-Soreness.-Am a subscriber to the Michigan Farmer and always take quite an interest in the veterinary department, and often find useful information about stock. Have a cow twelve years old that showed some soreness before she was turned out to grass, but now she is worse, es-pecially since she was bred. I fed her ensilage with almost ripe corn, before ensilage with almost ripe corn, before she was turned to pasture. She is milking fairly well, but is very stiff. P. A. M., Petoskey, Mich.—Give her a teaspoonful of nitrate of potash in feed or in drinking water twice a day. Are you sure that she is not foot-sore? If so, stand her in wet clay two hours

Sow Fails to Come in Heat.—I have a sow that was bred February 7; has a sow that was bred February 7; has not been in heat since, but has not had any pigs. Can you tell me why she failed to breed? A. E. S., Lowell, Mich.—There are many causes why she might not get with pig, I don't know which. It will not pay you to keep her for breeding purposes.

Bacterial Navel Infection,-We have some little suckling pigs troubled with joint swellings, causing considerable lameness. H. H. H., Moscow, Mich.—
The sow's udder and navel of young pigs should be cleaned at farrowing pigs should be cleaned at fairwing pigs would be kept in a clean place; if so, the young pigs would do better. Paint swollen joints with tincture of iodine three times a week. Give the sow ten grains the distribution of the solution of th of sodium salicylate at a dose twice a

Open Joint-Infected Joint.-About two weeks ago my two-year-old colt got kicked on stifle joint, the joint soon commenced to discharge joint oil, now considerable pus comes from wound. Our Veterinarian tells me the colt will always have a stiff joint. colt will always have a stiff joint. G. F. H.—Occasionally, paint joint with tincture of iodine and give colt good care is about all that can be done. Your Veterinarian should irrigate joint thoroughly, using a solution of biniodide of mercury; this might destroy the "joint" infection.

Lamenitis.-Two years ago I pur chased a black gelding that was some footsore or tender in both fore feet and instead of him growing better, he is worse. He dislikes to go down hill. When backing, he drags fore feet and cripples when walking on cobblestones. F. J. D.—Stand him in wet clay two hours a day, apply wide webbed shoes with plenty rolling motion. Chronic foot soreness is usually incurable, but remember the hind feet are seldom affected.

Cow Fails to Come in Heat .- Have a cow that fails to come in heat, What shall I give her? A. B.—Give her half a dram of ground nux vomica and one dram ground capsicum at dose in feed two or three times a day.

Glandular Swelling.-Have calf six weeks old with moveable bunch high up in neck. Will this bunch make the meat unfit for food? W. P. K.—Flesh fit for food. Apply tincture of iodin daily and it will go away.

Twin Calves-Freemartin.-My Hol stein cow has twin calves, one a heifer calf, the other a bull calf. Is either calf good for breeding purposes? J. M.—The heifer will not breed, the bull will doubtless prove to be a stock getter, but it is usually a mistake to keep them for that purpose.

Closing Out Auction of

Bloss Bros. Sophie's Tormentor Jersey Cattle

Swartz Creek, Mich., (on Grand Trunk Ry.)

Thursday, Aug. 19, 1920

the day before the Michigan Jersey Cattle Club meeting at East Lansing.

There are 40 head in the sale, the herd is headed by Champion Torono's Son 7th whose brother sold for \$7500, and is the sire of 20 R. of M. daughters.

Besides his sons and daughters there are a number of cows by a son of Hood Farm Pogis 9th and others close up to Foxhall's Jubilee, Interested Prince and Rioter's Jersey Lad. Send for a catalog.

Col. D. L. Perry, Auct., Columbus. O. J. V. Cotta, Sale Mgr., Crawfordsville, Ind.

C. SOWS FOR SALE

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.

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

OUR HERD SIRE -Model King Segis Glista

By a 30 lb. son of Lakeside King Segis Alban De Kol. His dam Glista Fenelle 32.37 lbs. Her dam Glista Ernestine 35.48 lbs. His three nearest dams average over 33 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.

Reg. Holstein Bull calfborn Dec.19, a beauty % white reg. and del. for \$100, would take Liberty Bond. J. R. HICKS, St. Johns, Mich.

-WinnWood Herd-

Flint Maplecrest Boy No. 166974 Has Made Good

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

A Few Females For Sale

OUR JUNIOR HERD SIRE-Sir Ormsby Skylark Burke No. 264966 A brother to the world champion cow over all breeds, DUCHESS SKYLARK ORMSBY

Michigan's best bred Ormsby bull. Better get on the list for one of his sons out of a daughter of Flint Maplecrest Boy.

JOHN H. WINN, (Inc.) Roscommon,

M ay Echo Sylvia Bull calf. 2 crosses to May Echo a 2 yr. old daughter of a 29 lb. cow, 6 of his nearest tested dams average 34.49 lb. of butter and 759 milk. O. H. GIDDINGS, Gobleville, Mich.

"TOP NOTCH"

HOLSTEINS

HOLSTEINS

McPHERSON FARMS COMPANY
has raised many great milk cows:—
1 Officially Produced

1 " " 824 lbs. milk in 7 days
3394 lbs. milk in 10 days
120 lbs. milk in 1 day
110 lbs. mil

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.

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

A Good Note accepted in payment of finely bred registered Holstein bull calves. Quality of the best, and at prices within reach of all. Write, GEO. D. CLARKE. Vassar, Mich.

CLUNY STOCK FARM

A Semi-Offical Bred Bull to Head Your Head

Maplecrest Application Pontiac No.132652, heads

Our Herd Our Hord

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 Hord.

For Pedigrees and Prices write to R. Bruce McPherson, Howell, Mich.

Holsteins of Quality

Fifteen High Grade Holstein Cows For Sale E. A. HARDY, Rochester, Mich.

The Traverse Herd

We have what you want in BULL CALVES, the large growthy type, guaranteed right in every way are from high producing A. R. O. ancestors fine growthy type, 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 of your DAIRY HERD

by using a

Registered Holstein Sire

We have bulls of all ages listed at reasonable 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

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.

Entire Herd of 10 Reg. Holsteins for \$2500.
GEO. B. PARDEE, Galien, Mich.

For Sale 1 Reg. Holstein bull calf, born Dec. 2, 1919.
Write to LOUIS LIETAERT, Tower, Mich.

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 either sex, horned or polled, any age. Priced reasonable. THE McCARTYS, Bad Axe. Mich.

Herefords: 4 Reg. bulls 5 to 8 mo. old. Prices welcome. Reed Schultz, R. 3, Homer, 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 a jesty breeding from ment "Accredited List." Write for price and pedigree to C. A. TAGGETT, R. 2, Fairgrove, Mich.

ILLIE 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.

Registered Jersey Cows bred heifers and bulls. O. A. BRISTOL, Fenton, Mich. **SHORTHORNS**

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

BIDWELL STOCK FARM;

Richland Stock Farms

Home of the Michigan Champions. Shorthorn Sires in Service:

IMP. Lorne, IMP. Newton Champion, Sterling Supseme. Why not buy a young bull to head your herd that carries the blood that is making Shorthorn History. Only a few real headers left. Write your wants.

C. H. PRESCOTT & SONS. Tawas City, Mich.

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

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

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

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

AARON HAGENBUCH, Sec-treas. Three Rivers, Mich

Milking SHORTHORNS. Clay bred bull calves Herds under Federal Supervision. Davidson & Hall, Beland & Beland, Tecumseh, Mich Shorthorns Good Scotch bred bulls, cows and heifers pric ed right,
W. B. McQUILLAN, R. 7, Howell, Mich.

M EADOW Hills Shorthorns. Herd headed by Sil-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.

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

Shorthorn bull registered age 18 mos. Red, little wite. Kind. peaceable and an exceptionally good individual. Write or come and see him. Roy W. Weinberg, Vicksburg, Mich. Bell phone 188F4.

Twenty-one Head of Registered Shorthorn cat-tle for sale. MRS. B. C. WHITAKER, Chelsea, Michigan. Bell Phone.

Reg. Red Polled cattle choice young bulls from 6 to 18 mo. old for sale.
FRANK KEBLER, R. 1, Grand Ledge, Mich.

HOGS

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

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

Brookwater Duroc Jerseys FOR SALE

Bred Gilts of Choice Breeding

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

READY FOR SERVICE POAR Brookwater Durocs are the real pork producers and the best bred hogs in Michigan.

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 DUALT

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

Phillips Bros, Riga, Mich. Duroc Jerseys Well bred. Correct type of all ages for sale, guaranteed right. W. E. BARTLEY, Alma, Mich.

Duroc spring pigs, fine boars direct from H.W.Mum-ford (Brookwater Satsfaction), Dam (Brook-water Lucy Wonder) fine large, stretchy fellows \$30each, Ralph P. Sheman & Sons, So. Haven, Mich.

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

NEWTON BARNHART,

St. Johns, Mich.

Thos. Underhill & Son. Salem. Mich. Breeders of Reg. Puroc Jersey swine. Watch for our sale adv. in Mich. Farmer, July 24 issue, of bred sows, bred gilts, open gilts and boars.

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 Orlob King Number 169259. Son
of the \$10.000.00 champion Jacks Orion King 2nd.
All
large type, heavy bone gilts, 220 to 300 lbs.
THE JENNINGS FARMS, R. 1, Bailey, Mich

MICHIGANA FARM DUROCS

Breeding Stock For Sale
Pavilon, Mich. O. F. FOSTER, Mgr.,

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

Am Selling Durocs August 4th, Send W. C. TAYLOR, Milan, Mich The World's Champion

Box D; Tecumseh, Michigan

We Now Have

a number of choicely bred scotch females of age for sale also three buying.

NORMAN CARR, Bad Axe, Mich.

Big type O.I.C's. Stock of all ages for sale. Herd headed by Calloway Edd, the World's Champion on I.C. Schoolmaster. Grand Champion boar of Michigan, New York and Tennessee state fairs. Also, C.C. Glant 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.



GOMBAULT'S CAUSTIC BALSAM

A safe, speedy and positive cure for

Curb, Splint, Sweeny, Capped Hock, Strained Tendons, Founder, Wind Puffs, and all lameness from Spavin, Ringbone and other bony tumors. Cures all skin diseases or Parasites, Thrush, Diphtheria. Removes all Bunches from Horses or Cattle.

As a HUMAN REMEDY for Rheu-matism, Sprains, Sore Throat, etc., it is invaluable.

Every bottle of Caustle Balsam sold is Warranted to give satisfaction. Price \$1.75 per bottle. Sold by druggists, or sent by ex-press, charges paid, with full directions for its use. Send for descriptive circulars, testimo-nials, etc. Address.

THE LAWRENCE-WILLIAMS COMPANY, Cleveland, Ohio

Stop Losing Calves

Treat Your Herd the Roberts Way Successful for 30 Years

Stamp Abortion Out **Keep It Out**



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

DR. DAVID ROBERTS

THICK, SWOLLEN GLANDS

that make a horse Wheeze, Roar, have Thick Wind or Choke-down, can be reduced with

ABSORBINE

also other Bunches or Swellings. Noblister, no hair gone, and horse kept at work. Economical-only a few drops required at an application. \$2.50 per bottle delivered. Book 3 ff free.
ABSORBINE, JR., the antiseptic liniment for mankind, reduces Cysts, Wens, Painful, Swollen
Veins and Ulcers. \$1.25 a bottle at dealers or
delivered. Book "Evidence" free.

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

FOR HORSES, CATTLE, HOGS.



HEAVES, COUGHS, COLDS, (

29 TEARS SALE

DISTEMPER, INDIGESTION

Curse Heaves by correcting the

Curse Heaves by correcting the

Colle, Stargers, etc. Best Onaditioner and Worm Expeller. Three large

cans guaranteed to

guaranteed to

mail, Largest packages. Dose is small. Cheapest to use.

THE NEWTON REMEDY COMPANY, Toledo, Ohio



\$3.25 Box guaranteed to give satisfaction or money back. \$1.10 Box Sufficient for ordinary cases. (Includes War Tax MINERAL HEAVE REMEDY CO., 463 Fourth Ave., Pittsburgh

FOR SALE

Four 8-16 Mogul Tractors Three 10-20 Mogul Tractors One 8 H. P. Engine on trucks One 10 H. P. Engine on trucks All in first class condition at extremely low prices. For particulars write The Auto Sales Co.

SHEEP.

Put Your Faith

in better breeding stock. For the best in Shrop-shire and Hampshire Rams write or visit KOPE-KON FARMS, S. L. Wing. Propr. Coldwater.Mich. See our exhibit at the Ohio and Mich.State Fairs.

Idle Wild Stock Farms Shropshire yearling rams from prize winning stock.
Make your selection early. Oliff Middleton, Proprietor, Clayton, Mich. R. 3.

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

Cotswolds yearling rams. ram lambs. Cotswolds for August 17-18 to dian rams. A. M. BORTEL, Britton, Mich. Bean Association.

CONSOLIDATED SCHOOLS.

(Continued from page 142). munity gatherings. In one such school in upper Michigan besides patriotic and social meetings, two different denominations hold Sunday School, Catholic services are held twice a month, and a Methodist minister preaches there regularly. Many more benefits of the consolidated school might be described. They are not theories or imaginings. However, we compare the two systems the consoliated school is far the best. Why then should we wait for a few districts or townships at a time to adopt the system? Some form of legislation which would establish consolidation in every county in the state would hasten the day of better schools. Many of our voters say: "Yes, it's a fine thing, but it costs more than the old way." Yes, it costs more, of course, but the returns are so much more. Considering everything, the cost is not so great either. Anyway, can we afford not to do this for our boys and girls whom we wish to keep on the farm to take our places in a few years? Farming today is not what it was in our grandfather's time and the agriculture of tomorrow will not be what it is now. Let us give our boys and girls the practical knowledge and training they need to compete in the world of scientific farming which they will enter. Let us educate them to a whole-hearted acceptance of the Country Boys' and Girls' Creed, which let me quote below, and decide in our own minds at least "we must have consolidated schools." Following is the "Country Boys' Creed." "I believe that the country which

God made is more beautiful than the city which man made; that life outof-doors and in touch with the earth is the natural life of man. I believe that work with nature is more inspiring than work with the most intricate machinery. I believe that the dignity of labor depends, not on what you do but how you do it; that opportunity comes to a boy on the farm as often as to a boy in the city; that life is larger and freer and happier on the farm than in the town; that my success depends, not upon my location but upon myself; not upon my dreams but upon what I actually do; not upon luck but upon pluck. I believe in working when you work and in playing when you play, and in giving and demanding a square deal in every act

GROWING DEMAND FOR FILMS.

HE supplying of good film for nontheatrical use is not nearly equal to the demand, although millions of feet are available. The call upon the part of schools, colleges, community centers, churches, and other organizations is tremendous. For instance, there is one concern, the Bureau of Commercial Economics in Washington, D. C., which supplies programs free to more than one thousand high schools, while a number of agricultural colleges and university extension departments are furnishing free films.

Possibly the best educational agricultural films made, are those of the United States Department of Agriculture. It has more than seventy pictures of one to four reels in length which to date have received very restricted distribution through the county agricultural agents. This limited use was necessary because of lack of funds with which to make prints from its negatives.

TO FORM NATIONAL BEAN ASSO-CIATION.

E. A. Little, editor of the "Bean Bag," has called a meeting of bean growers, jobbers, and others interested in the industry, at LaSalle Hotel, Chicago, for August 17-18 to organize a National



Gilbert Hess, M. D., D. V. S.

Dr Hess Fly Chaser

Drives away flies and mosquitoes. It is long lasting. It has a pleasant odor. It will not taint the milk. It will not stain the animal.

It will not gum the hair. It cleanses the skin. Guaranteed or money refunded.

Spray cows before milking with Dr. Hess Fly Chaser; see the good results in the milk pail.

Spray your horses in the morning and at noon; they will perform their work in contentment.

Ask the Dr. Hess dealer in your town. He has Dr. Hess Fly Chaser in convenient sized cans.

> Dr. Hess Fly Chaser can be applied with hand spray, cloth or sponge.

DR. HESS & CLARK, Ashland, Ohio

Feed Every 3rd Hog FREE

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

Milkoline At 2c a Gallon

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

Aids Digestion: Thousands of the most successful hog raisers from New York to California during the pastseven years have proved that 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 B. Combs while Ass't. Prof. of Dairy Husbandry at Missouri University conducted a scientific test on Mikoline and found that Mikoline fed hogs put on more weight and showed 32.57% more profit than hogs not fed Mikoline. W. H. Graham a successful feeder of Middletown, Mo., said \$30 worth of Mikoline made him an extra profit of \$420. Lee Jackson of Wappingers Falls, N. Y., says Milkoline fixed up a bunch of shoats in finestyle and is great for brood sows.

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

SCHWARTZ BROS.,

2c a Gallon Milkoline

DR. HESS Y-CHASES

And the second second

tones bees a pro-tones er es cires Ler se rar

DR.HESS

Fly Chase

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. \$19.50. It pays to buy in barrel lots because you save 60c a gal. over the 5 gal. quantities.

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

Saginaw, Mich.

Special Offer COUPON

The E. W. ROSS CO., 520 Warder St. Springfield, Ohio

Please send literature describing Ross Ensilage Cutters -- also details of

Special Proposition

VERY farmer who takes the trouble to clip out this coupon-or to write a card or letter this week-is going to get-A Special 30-day Proposition on the simple, powerful, clean-cutting

Ross Ensilage Cutter

Quick action is necessary. You must write at once if you want to take advantage of our Special Offer.

And, what is most important, you cannot afford to delay a moment if you want to be sure of getting the most reliable cutter built in time for use this fall.

Ask for full proof of Ross Superiority. No obligation on your part. Write today for the facts in full.

The E. W. Ross Company

520 Warder St.,

Springfield, Ohio



POLAND CHINA BREEDERS'

PICNIC.

tion will hold a basket picnic at Crystal Lake, Crystal, Mich., August 18. Mr. W. M. Wiles, of Kirklin, Indiana, will disucss the Poland China question. Five other speakers are on the program and will discuss various topics. Every Poland China breeder in the state is urged to attend. Farmers and

breeders of other breeds are cordially invited to be with us. Dinner will be served on the Silver Family Grounds.—C. A. BOONE, Secretary and Treasurer, Central Michigan Poland China Breed-

Messrs. Carr Brothers & Co., of Bad Axe, Michigan, report the recent sale of five Shorthorn calves for \$5,400. For several years this enterprising firm have been investing liberally in good.

Shorthorn individuals and are to be congratulated on their recent sales.

Sold Direct \$23.50 Just the THING for SHOOL OF SILO CUTTING

ers' Association.

The members of the Central Michigan Poland China Breeders' Associa-tion will hold a basket picnic at Crys-tal Lake, Crystal, Mich., August 18.



SECOND EDITION

The market reports in this edition were revised and corrected on Wednesday afternoon, August 4.

WHEAT

Millers are not buying wheat and farmers are marketing the grain as fast as cars are available. As a result prices on the local market have declin-

CORN

In some sections the crop is not making satisfactory progress and prices remig satisfactory progress and prices remain firm though there is no activity on the local market. Present quotations on the local market are:

Cash No. 2 mixed\$1.50

Cash No. 2 yellow 1.55

OATS

On the local market there is no activity and prices are:

Cash No. 2 white......85

Cash No. 3 white.....84

Cash No. 4 white.....83

RYE

On the local market cash No. 2 rye is quoted at \$1.80 per bushel.

quoted at \$6.50 per cwt.

SEEDS

There is not much doing in the seed deal and prices at Detroit are: Prime red clover \$20; alsike \$21; timothy

FEEDS

There has been no material change in feed prices on the local market. Present quotations are as follows: Bran \$56; standard middlings \$59@ 60; fine middlings \$60@62; coarse corn meal \$65@67; cracked corn \$69@71; chop \$65@67 per ton in 100-lb sacks

HAY

Hay prices remain steady on the local market and the demand is active at the following figures: No. 1 timothy \$35@36; standard \$34@35; light mixed \$34@35; No. 2 timothy \$33@34; No. 1 clover \$30@31; rye straw \$13.50@14; wheat and oat straw \$13.50@14 per ton in carlots.

BUTTER

Receipts are sufficient to meet the requirements of purchasers and the tone of the markets is easy. On the Detroit market quotations are: Creamery extras 52c; one-pound prints 54c.

EGGS

The tone of the market is firm and all recepits that arrive in good condi-dition on the local market are promptly taken up at the following prices: Fresh re-handled 46c; storage packed extras 47½c per dozen.

POULTRY

There seems to be an oversupply of small broilers on the local market and buyers are not active, but prices for other lines remain steady as follows:
for live poultry: Broilers 48@52c;
Leghorn broilers 38@40c; hens 36@
37c; small hens 34@35c; roosters 20
@22c; geese 18@20c; ducks 36@38c;
turkeys 40@44c per pound.

Sheep and Lambs.
Receipts 923. Market strong.

\$18.50@19.00

Others

Sheep and Lambs.

Receipts 1,195. Market steady.

@8 per barrel in jobbing lots.

WOOL

Growers and dealers are of the opin-Growers and dealers are of the opinion that fine wools will continue to predominate in the demand and are planning accordingly. As the proportion of fine wools is smaller this year than last it is suggested that another scramble for the best grades will ensue if demand is lacking for fabrics made from lower grades.

\$1.40 per bushel. Jobbers in beans reduced the price to growers this week to \$5.50 for Michigan pea, and \$10 for red kidney. They report the forthcoming crop in excellent condition. There red kidney. They report the forthcoming crop in excellent condition. There has been plenty of moisture and hot weather. The crop of early potatoes is being rapidly harvested. The price paid to growers has dropped this week to \$2 to \$2.50 per bushel according to \$2 to \$2.50 per bushel according to marketed rapidly. Shippers from outside points buying heavily all week. marketed rapidly. Shippers from outside points buying heavily all week. The city market price is 75c to \$1.50 per bushel. Red Astrachans bring \$2. Bee men report that the Michigan crop of honey this season will exceed 400,000 pounds and claim that Michigan leads as a honey producing state Very leads as a honey producing state. Very little hay is being marketed now as farmers are busy with crops. The price at the city market is \$23 per ton. There is a heavy falling off in egg receipts and dealers bid 44c per dozen for a supply.

NEWS OF THE WEEK.

(Continued from page 134).

lose the retroactive feature of their agreement with the operators.—The United States has protested against Japan's unchecked exploitations in Siberia.—The finance committee of the The bean market is slow. Choice of pea beans for immediate shipment are quoted at \$6.50 per curt

PRESIDENT WILSON severely cen-PRESIDENT WILSON severely censures Illinois coal miners for striking in violation of their contract.—The National Chamber of Commerce approves by an overwhelming vote the open shop policy.—December wheat declines ten cents on the Chicago Board of Trade.—Premier Millerand, of France, scores triumph in securing the support of the Chamber of Deputies by a large majority, on the coal ties by a large majority, on the coal agreement with Germany negotiated at Japan does not show any material improvement.—Twenty-one persons are killed and twelve injured in a munitions facory explosion near Prague.

Salem, Mich. tions facory explosion near Prague.

Sunday, August 1.

C HICAGO postal clerks send delega-tion to Washington to confer in all the lines in that country.—Following protracted disagreements with the Soviet representatives, the Lithuanian government officials withdraw from Vilma.

Monday, August 2.

Monday, August 2.

A LLIED diplomats and military men fear that in order to turn the positions covering the Polish capital at Warsaw, the Bolsheviki will invade eastern Prussia which, if unopposed, will make Germany a silent partner of the Soviet government, or if resistance is offered, Germany can reasonably demand a permit to raise an army to fight.—Herbert Hoover anonunces his withdrawal as a member of the allied commission to Armenia.—Reports form Japan indicate that an unpleasant im-Japan indicate that an unpleasant impression has followed the publication of the American note on Japan's occupation of the island of Saghalin.

The annual summer meeting of the Michigan Jersey Cattle Club will be held at the Agricultural College, East

Lansing, on August 11, 1920.

This will be a big day for all lovers of the "Fawns." The program promises to be one of the liveliest and most enthusiastic ever "pulled off" by the

COMING LIVE STOCK SALES.

the Spa.—The business situation in Duroc Jersey—August 10th, Home Japan does not show any material im-

Works in any kind of soil.

Cuts stalks, doesn't pull
like other cutters. Absolutely no danger.

Cuts Four to Seven Acres a day with one
man and one horse. Here is what one farmer says: Dear Sirs:—In reply to your letter will say that the achine can't be beat. I do not know how many locks I cut, as I went so fast I lost count.
Yours truly, T. C. HARTUNG, Springport, Mich.

SOLD DIRECT TO THE FARMER
Send for booklet and circulars telling all about this labor-saving machine; also testimonials of many users.
LOVE MANUFACTURING COMPANY
Dept. 4
Lincoln, Illinois

Live Stock Market Service

DETROIT

Cattle.

Receipts 1,799. Market very du	II OI
all grades.	100
Best heavy steers\$	14.00
Best handy wt bu steers 11.00@3	12.25
Mixed steers and heifers 9.00@:	10.50
Handy light butchers 8.00@	9.25
Light butchers 6.50@	7.50
Best cows 8.50@	9.00
Butcher cows 7.00@	
Cutters	5.00
Canners 4.00@	4.50
	8.50
Choice bulls 6.50@	
DOUGH BUILD TOTAL	
Feeders 8.50@1	0.00
Stockers 6.50	
Milkers and springers\$ 60@	125
Veal Calves.	
Receipts 923. Market strong.	2
P10 F0@1	n n n

Hogs.

Receipts 1,615. Market steady to 10c higher. Mixed ... Heavy Pigs Rough Stags

CHICAGO. Hogs.

GRAND RAPIDS

During the week millers have cut help paying price 20c per bushel for tops \$16.20; heavy 250 lbs up medium, wheat. The price now is \$2.15 for new good and choice \$14.015.75; medium No. 1 red and \$2.13 for No. 1 white. 200 to 250 lbs medium, good and choice New rye is also lower, the price being at \$14.75@16.15; light 150 to 200 lbs.

common, medium, good and choice at \$15.20@16.20; light lights 130 to 150 lbs common, medium, good and choice \$14@15.90; heavy packing sows 250 lbs up smooth \$13.50@13.90; packing sows 200 lbs up rough \$12@13.50; pigs 130 lbs down medium, good and choice \$14.25@15.50 \$14.25@15.50.

Cattle.

Estimated receipts today are 8,000. Market slow and steady. Beef steers, medium and heavy weight 1100 lbs up choice and prime \$16@17.10; do mediate to the company of the c um and good \$12.50@16; do common at \$10.25@12.50; light weight 1100 lbs down good and choice \$14.75@16.75; do common and medium \$9@14.50; do common and medium \$9@14.50; butcher cattle heifers, common, medium, good and choice \$6@14.75; cows common, medium, good and choice at \$5@12; bulls, bologna and beef \$6@1.75; canners and cutters cows and heifers \$3.75@6; do canner steers at \$4.50@7; veal calves, light and handyweight medium, good and choice \$15 @16.75; feeder steers. common, medium, good and choice \$8@11.50; stocker

Sheep and Lambs. Hogs.

Ceipts 1,615. Market steady to 10c

Br. Market steady to 10c

Market steady to 10c

Market steady to 10ce and prime 16.00 \$12@14.75; do culls and common \$7.50

16.25@16.50 @11.75; spring lambs, medium, good, choice and prime \$1.00 choice and pri 10.00 dium, good and choice \$6.50@9; ewes, cull and common \$3@6; breeding ewes full mouths to yearlings \$6.50@10.75; yearling wethers medium, good, choice \$10@12.25.

BUFFALO

On this market medium and heavy hogs bring \$15.75@16.50, other kinds \$17.25@17.50; lambs are steady at \$15.015.25; best calves are quoted at \$18. The cattle market is very dull.

Strength and Durability In Your Silo

Preston J. M. PRESTON CO. Dent. 309 LANSING. MICH. Fort Dodge, Ia.; Uhrichs ville, O.; Brazil, Ind.

HARVESTER Self Gathering for cutting Corn, Cane and Kafifi Corn. Cate and the first Corn. Cate and the cate Corn. Cate Cate Corn. Cate Cate Corn. Cate Cate Corn. Cate Ca ing picture of harvestor at PROCESS MFG. CO.

POULTRY

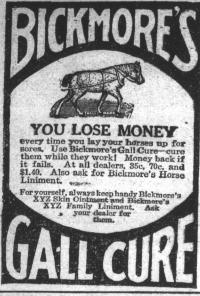
R.C. Brown Leghorn C'k'rls \$1.00 each. White Pekin ducks \$2.00 each. Mrs. Claudia Betts, Hillsdale, Mich.

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, R.2, Portland, Mich

S.C. Brown Leghorns Excellent layers. Farm range Eggs postpaid & each, Cockerel \$1.25 each. Floyd Robertson, R. 1, Lexington, Ind

S. C. W. Legherns Large stock, great layers. Chens. Some pullets. Versonable. V. A. MORSE, Ionia, Mich.

White Plymouth Rock Cockerels, now \$2.00 each, with thehard M. Gretton, Brockport Farm, Mason, Mich.



25 Cords a Day Easily Sawed By One Man.

Easy to move from cut to cut. Make big profits cutting wood. Cheap big profits cutting and easy to operate.

OTTAWA LOG SAW

Does 10 men's work at one-tenth the cost.
Makes work easy. Engine can also be used for running pumps and other machinery. Saw blade easily removed. Writeforbur low price.

Cash or Easy Payments.



Mr. POULTRY FARMER:

We make a specialty of White Hennery Eggs and have created a profitable market for your eggs the year around. We pay the highest premium for your Hennery Whites—We remit same day shipments arrive. Ship Often—Ship by Express

GEO. R. ELDRIDGE CO.
494-18th Street, Detroit, Mich.
Remember! We guarantee you satisfaction with every ship

We have a good demand for fancy fresh eggs and will pay you 5% per dozen, delivered Detroit, cases included for express ship ments, this price good for week shipped direct by 1920. AMERICAN BUTTER & CHERSE COMPANY, Detroit, Mich.

COLLIE PUPPY SALE

For two weeks only I will sell thoroughbred Scotch Collie puppies, three months old for fifteen dollars, either males or spaved fenales, natural heel drivers bred from farm trained stock. Send check in first letter, all pup-pies guaranteed. Order today or you will be too late.

Dr. Ewalt's Collie Farms, Mt. Clemens, Michigan

Pilot Acetylene Generator Plant—Size 50 For Sale generator, gas shades, 3 single lights hang in the middle of the room. 6 wall lights. Fiping enough to jue a good size house. Lights are all bronze. Forch light, hot iron, 3 burner stove. Every thing O. K. Will self for \$150.00 worth \$300.00. W.F. MASO, W. Prescott, Michigan

Farms and Farm Lands For Sale

232 Acre Farm With Horses, 25 Cows, Tools, Crops

Big steady income, near town, close creamery; broad machine-worked fields, 40-cow, spring-watered pasture; 2-story, 10-room house, spring water maple shade, big stock barn, sile, water supply, poultry house; owner unable to occupy throws in horses, cows, 3 yearlings, 2 2-year olds, machinery, tools and part growing crops; less than \$31 an acre for everything, easy terms. Details of this and aucther at \$290 page 29 Strout's Big Illustrated Gatalog Farm Bargains 33 States, copy free. STROUT FARM AGENCY, \$14 BO Ford Bldg., Detroit, Mich.

Virginia Farms

You can become happy and independent farming in Virginia. You can grow profitably alfalfa and all grasses, corn, fruits, grains, beef and dairy cattle. Virginia boasts the finest apple growing section in the world. Prices very reasonable, but advancing. We welcome you. Write now for illustrated hand book and maps.

G. W. KOINER

State Commissioner of Agriculture, Richmond, Va.

140 ACRES first class, gently rolling land, fine buildings and location in Central New York State for \$12,000. Part cash balance easy. Write for full particulars.

FORT AND WILDER ING., Oneida, N. Y.

Members of the Farm Brokers' Association, Inc.

FOR SALE

213 acre fully equipped dairy or grain farm 10 room house, all necessary outbuildings, fruited, cherries, peaches, apples, for family use 2 miles from cream-ery and milk station, \$12,000 only \$2,000 in cash requir-ed. C. J. Lame Farm Agency, Luc, Burlington, N.J.

Modera dairy farm 121 A. 2 houses, 3 barns, electric lights, running water, 19 cows, 4 horses, hogs and chickens. Modern machinery, good crops, 2 hr's from Detroit on County road. L. Bronghton, Ray Center Macomb Co. P. O. New Haven, R. R. I, Mich. Phone 23-41.

Farms in southeastern North Dakota in the Famous Sunts River Valley Mutsman county North Dakota. 20,000 acres must be sold immediately. Write for big free list. JOHN B FRIED LAND COMPANY, Jamestown, North Dakota

Ex-Soldier wants to rent or buy a good general farm All club member B. F. ADAMS. 356 Theodore St., Detroit, Mich. point to attend.

SHORT-FED SPECIALS AT INTER-

IN order to determine and demonstrate the best and most economical method of feeding cattle, The International Live Stock Exposition has created the following classes, to be known at the following classes, the following classes, the following classes at the following clas as "Short-Fed Specials."

Cattle to be eligible for entry must not have been fed grain or other concentrated feeds between May 1 and the time application is made for entime application is made for entry, but after that time the owner may feed the cattle such feeds, including grain, as in his judgment will accomplish the greatest results within the given feeding period, i. e., from the date application is made for entry to to the opening day of the exposition.

The Following Rule Governs this Contest:

Rule 72. (a) Application for entry must be made between the first and fifteenth of August. (b) Cattle must be owned by exhibitor at the time application. plication is made. (c) Cattle must not have been fed grain or other concentrated feeds between May 1 and the time application is made; they may, however, have been run in stalk fields. (d) Eighteen cattle may be fitted, but only fifteen of this number can be shown as one carload. (e) The number of days on feed should include the day the cattle are started on feed and end with the last day the cattle are on feed, or when they leave the feed lot. Cost of gain should be figured on the same basis. ed on the same basis. (f) Cattle must be weighed, twelve hours in dry lot off feed and water, on day application is made and a record must be kept of the weight of these animals. The cattle to be judged will again be weighed, under similar conditions, at 10:00 a.m., Saturday, November 27. (g) Sworn statement by the owner and two other. statement by the owner and two other statement by the owner and two other reputable persons that cattle had not been fed grain or other concentrated feeds between May 1 and the time application for entry is made, also covering the weight of animals on date of application, must be sent to the general superintendent of the exposition with said application. (h) a record of the kind, weight and cost of feeds consumed during the feeding period must. sumed during the feeding period must be kept by the owner, who will deliver this information, together with the weight of the animals at time of entry, to the superintendent of the car-load cattle division, on the opening day of the exposition. (Blanks for all of these purposes will be furnished on request to the general superintendent).
(i) In judging these classes:
Quality and finish will count for 50 per cent; gain, 25 per cent, and econ-

omy of gain, 25 per cent.

NEW YORK PRODUCE MARKET.

Butter.—Because of the high receipts and of the supply of foreign butter on hand, receivers are urgent sellers and this has caused a weak market and a price decline of one cent. There would have been a greater decline but for the revival of speculative interest brought about because of the favorable price situation. There has also been considerable demand from out-of-town sources. The tightness of money is preventing some speculators from laying in as much butter as they wish to and it is also causing some receivers to force sales which otherwise they would not do Established quotations are: Extras 55% 055½c; higher scoring than extras 55% 056½c; firsts 51½c 54½c; seconds 48½c050½c. Cheese Receipts of cheese are at about because of the favorable price situation. There has also been con-

Cheese.-Receipts of cheese are at

Cheese.—Receipts of cheese are at the point for the year. Local consumptive demand continues low, but trading did revive somewhat during the latter part of the week. Quotations are: Fair to good 24½ @25c; average run 25½ @26½c; specials 27@28c.

Eggs.—Receipts are running fairly uniform from week to week. Demand has been good and practically all grades have moved freely. Quality, on the whole, is running above normal for the season. There has been little or no change in prices, Established quotations are: Seconds 44047c; firsts 48@50c; extra firsts 51@53c; extras 48@50c; extra firsts 51@53c; 54@55c

Poultry.—Seashore and mountain re sorts have been large users of poultry sorts have been large users of boutry, especially of broilers and fowls, during the past week. The market has been strong and active. Prices, however, are unchanged. The situation can be said to be very healthy. Quotations are: Fowls 38% 41c; broilers 42% 50c; old roosters 24c; turkeys 35c; ducks 27% 30c; pages 25c. 27@30c: geese 25c.

FARMERS' CLUB PICNIC.

The Central Michigan Farmers' Club picnic will be held at M. A. C., August 7, in conjunction with Farmers' Day. All club members should make it a



A Gang of "Red Seals" Handled as One

Batteries-but easier now to handle. Ready for you now at your dealers.

Red Seal Sparkers do away with bother and loss of time in fussing with short wires and many connections—of short circuits in connecting wires—of handling an awkward bundle of batteries, etc. New double waterproof casing lengthens battery life. Only two posts to connect—large and square to turn easily with fingers. A broad webstrap for carrying from one job to another—from Ford to tractor, farm engine or to lighting plant at night.

Best for Every Farm Use

Wherever a spark is needed, the Red Seal Sparker will serve you best. Hand-iest thing in the battery line you ever saw—and Red Seal sterling quality all through.

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Dealers handling Red Seal Dry bat-teries also have the Sparker. Buy the Sparker for its convenience and saving. Your dealer has "How to Run the Gas Engine—Simplified"— our famous hand-book for engine Ask him for Free Copy.

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FIRST OLD DETROIT NATIONAL BANK

HE First and Old Detroit National Bank, the First National Company and the Central Savings Bank are under one ownership, insuring especially complete service to every oneneeding a Detroit connection.

= DETROIT =



Save your corn!

THE only sure way to save your late corn that has a big chance of being frosted, is to put it in a Silo.

You can get an Indiana Silo NOW, it can be erected by three or four men in one day and filled the next day. Our stock is complete in all size silos—we can fill orders promptly.

Order now-SAVE YOUR CROP while you can!

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Save 50% on a Motor Truck

Built for a Government job in 1919-used only a few weeksstored for a year--that's their history.

Two ton Denbys, 2 ton Internationals, 21 ton Gramm-Bernsteins. Just the size for the farm.

We give you the same guarantee with these trucks that you get from the factory. If you are interested in the purchase of a truck and will drop us a line, we will send you pictures, and detailed descriptions. After you have received full information, if you decide you would like to purchase a truck, we will deliver it to you, on approval anywhere within 300 miles of Detroit—if everything is not exactly as represented you will not be obligated to take it.

We have only a few left and as the hauling season is at hand we expect to dispose of them quickly. So if you want a truck write now.

LEWELLEN & ROEHM, 65 Ash St., Detroit, Mich.

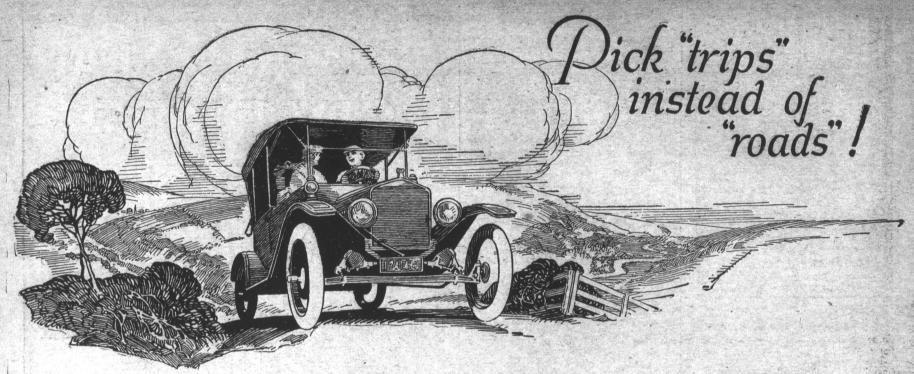
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"Enough Said!"

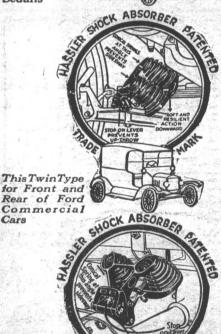
Holmes, Stuwe Co., 445 Riopelle St.

HAY Ship to The Old Reliable Hou e Daniel Mc Caff ey's Sons, 623-625 Wabash Bildg.. Pittsburg, Pa.









This Twin Type for Front and

Rear of Ford One-Ton

Trucks

WHEN you start out for a ride do you go where you wish to go, or where the roads are supposed to be good? Of course, some roads are impossible, but many so-called rough roads would be satisfactory if your Ford were equipped with Hassler Shock Absorbers.

Hasslers also protect your car from the bumps and jolts. They enable your car to travel all ordinary roads without injury. This protection means a saving of one-third of your tire and repair expense, and also lengthens the life of your car one-third.

Hasslers make your Ford ride like the highest priced cars. Bumps and jolts that ordinarily make riding unpleasant are not noticed when your Ford is equipped with Hassler Shock Absorbers.

Owners of Hassler-equipped cars drive farther with less fatigue for themselves, and less wear and tear on their cars. They pick trips instead of roads!

Hasslers can be installed on your car without necessitating any mutilation whatever. They do not change the appearance of the car.

They are made for the touring car, roadster, coupe, sedan and the Ford one-ton Truck. Your Hassler Dealer will see that your car is fitted with the right kind of Hasslers.

He will also tell you about the 10-Day Trial, which enables you to drive with Hasslers for ten days and if not satisfied have them removed and your money refunded. This enables you to get acquainted with Hasslers without risking your money.

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Shock Absorbers

for Ford Cars and Trucks

The conical springs set at the angle shown prevent sidesway and allow for the most resilient downward action. The springs compress on either upward or downward movements—do not stretch out of shape—do not allow up-throw. Hasslers last as long as the Ford and make it last.