

MICHIGAN FARMER

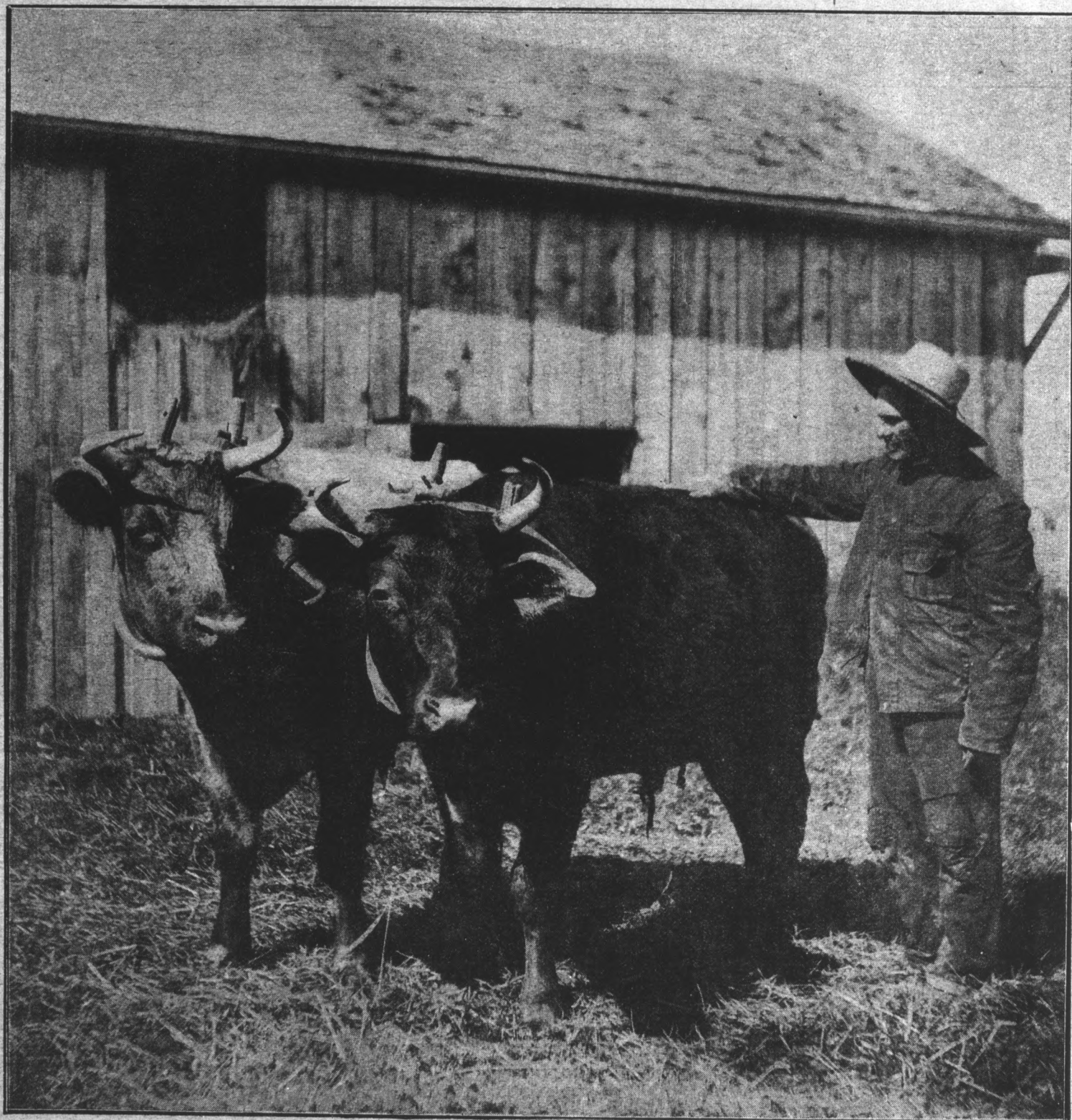
AND
LIVE STOCK
PUBLISHED WEEKLY.

JOURNAL
ESTABLISHED 1843.

VOL. CLIX, No. 25
Whole Number 4231

DETROIT, MICH., SATURDAY, DECEMBER 16, 1922

ONE YEAR \$1.00
FIVE YEARS \$3.00



National prosperity will follow when all industries move along the road of progress with steady uniform tread. It is when one line of the business moves at ox-gait and others at gasoline-gait that industrial confusion arises.



Published Weekly. Established 1843. Copyright 1922

The Lawrence Publishing Co.

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1632 Lafayette Boulevard Detroit, Michigan
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TERMS OF SUBSCRIPTION

One Year, 52 issues \$1.00
Three Years, 156 issues \$2.00
Five Years, 260 issues \$3.00
All sent postpaid
Canadian subscription 60c a year extra for postage

RATES OF ADVERTISING

55 cents per line agate type measurement, or \$7.70 per inch (14 agate lines per inch) per insertion. No advertisement inserted for less than \$1.65 each insertion. No objectionable advertisements inserted at any time.

Member Standard Farm Papers Association and Audit Bureau of Circulation.

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

VOLUME CLVIX NUMBER TWENTY-FIVE

DETROIT, DECEMBER 16, 1922

CURRENT COMMENT

THE MICHIGAN FARMER SAYS:

Eliminating the illiterate makes for race improvement.

Practical education enables us to take advantage of the experiences of other people.

Blue ribbon live stock, corn, or apples are commendable attainments, but blue ribbon boys and girls should be the heartfelt desire of every parent.

The man with calloused hands is often more refined than one with manicured nails, for refinement is a mental condition, not a physical one.

While enjoying the fireside, the comforts of the animals in the barn should not be forgotten.

The President's Message

THE message of a President to the Congress of the United States at the opening of a regular session of that body is always of general interest to all the people of the country as well as to the members of congress. It is a measure of the chief executive's knowledge and interpretation of the conditions existing in the country which must be met by the people of any or all classes, and his judgment as to the legislation required to stabilize those conditions for the benefit of the country and its people.

President Harding's recent message to congress at the opening of the regular December session is perhaps the best demonstration of real leadership in this regard which he has given. Among the numerous recommendations which are made in the message are the following, which we believe are for the most part in harmony with rural thought in this state:

Strict enforcement of the Volstead act as a means of eliminating a national scandal and definitely ascertaining the trend of public sentiment on the liquor question, which he believes to be in harmony with the act.

Provisions for agricultural production and enlarged farm land credits through an extension of the existing farm loan machinery.

Steps to narrow the spread of price between production and consumption as a means of reducing the cost of living.

Prohibition of railroad strikes and transformation of the railway labor board into a division of the interstate

commerce commission with authority to enforce labor decisions.

Expansion and cheapening of transportation through co-ordination of the railways, waterways and motor transport and greater economy and efficiency in operation.

Merging the railroads in systems, interchange and pooling of freight cars, more economic use of terminals, consolidation of other railroad facilities and financing of new equipment by a central agency which also would direct economies and traffic interchanges.

Registration of aliens and other measures designed to enforce respect for American institutions by immigrants and other aliens.

Establishment, before relaxing the limitations of immigration, of immigrant examining boards abroad to weed out undesirables.

Federal cooperation in education, particularly with a view to Americanization of immigrants.

Forest conservation legislation. Amendment of the constitution to restrict the issuance of tax-free securities by states and municipalities.

Amendment of the constitution to prohibit child labor.

Parents' Responsibility

THE test vote taken in congress last week satisfied the mind of every reasonable person that the general sentiment is all against relaxing the enforcement of the eighteenth amendment.

A few vociferous individuals, however, go on repeating, without facts to uphold their claims, that the volume of liquor consumed, is not only being maintained, but actually increasing. One of these, a father, approached an employe of this office one day last week and repeated his story. To emphasize his claims, he added that another father who had always kept his sons from saloons, had, since prohibition became effective, converted his cellar into a brewery, and that now every member of the family was a consumer of intoxicants. To this the employe made reply:

"I voted for prohibition," said the employe, "To protect your son, this man's son and every other man's sons

from the drink curse. Now, when society has outlawed this business, and a parent sets up a brewery or a still in his own home to debauch those of his own blood, then, I feel, that society has done its duty and the parent will have to answer for what follows."

Developing the Home Market

LAST Saturday every grocery store for a number of blocks in the busiest section of Grand River avenue in Detroit was visited to find eating apples which had been grown in Michigan. Apples were offered in large quantities, but not a single one could be found that had ripened on Michigan's hills.

In every store the clerks referred to boxes which had been packed two thousand miles away and shipped nearly across the continent under a heavy transportation tax to successfully compete with the home-grown product. That this competition was successful is testified to by the fact that Michigan stock has been entirely crowded off these retail markets in a season when thousands of bushels were never removed from the orchards in which they grew.

The western growers are not making money. When all charges are counted out, they are realizing less than Michigan farmers got at the cider mills. But that is not the point. The western fellows are taking advantage of this heavy crop year to place their fruit before the consuming public. Every avenue known to the progressive salesman is being used by these business farmers. As a consequence the retail stores located in a state famed for its luscious apples are not only not offering Michigan stock, but are crying down the home-grown apples in favor of those brought from the other side of the Rockies.

Michigan fruit is superior in quality to the western product. It is perfectly easy to convince any person of this. If Michigan growers were getting for their stock the prices being paid for the western apples they would be able even in a year like the present, to realize a margin of profit. Yet with an inferior product these western men bring their fruit across the continent

and drive the native-grown product out of the market.

When we have outgrown our swaddling clothes in the matter of marketing our apple crop and secure a reasonable portion of the business which should naturally come to growers in this section, our gratitude to these sturdy men of the west for showing us the way, will know no limits.

Suspishus Occashun

SOPHIE and me went to one of these Educashunal institutions what you call female cemetaries, where they put girls in the soil of refinement and have them sprout out ladies.

This was a special occashun for me, 'cause I was goin' to eat there and I ain't used to the new fangled way of eatin'. I practiced all the week before on balancin' my peas on my knife and when I got to the eatin' part of the festivities, I found they had string beans, so I got all tangled up. I enjoyed my meal with confushun.

The best part of the consumptive exercises was my after-dinner speech,

which went like this: "I am delighted to be present on this suspishus occashun in mist of such a august assemblage of feminine beauty and intelligence. Now I've given you the

very best example of my oratorical ability, but I admit my defeet 'cause, from the time Eve used her salesmanship on Adam to get him to eat the apple, woman has been the orator of the human race. Befn' as I am in the midst of so many natural born orators I am goin' to take my seat and listen. Judgin' from your appearances, I am sure you kin say things in beautiful language."

Now, I think that speech was great, 'cause it was modest, but it wasn't a success 'cause they didn't ask me to give it.

I kinda wanted to let somebody know what I was goin' to say, so I told one of the girls what it was while we was sitting on the sofie in the parlor and she said it was fine 'cept that I shoulda said "auspichus" instead of "suspishus." I said, "Nope, maybe I coulda called it a auspishus suspishus occashun, 'cause my friend Mr. Webster says auspishus means happy and suspishus means imaginatin' the existunce of something without proof. In many cases it is a happy occashun when you imagun the existstunce of something without proof." The young lady knew what I meant and immediately took me to the cellar and showed me all the way from there to the attic, and I didn't even see a sign of moisture.

Sophie said it wasn't right for me to make some more like it they would was strictly prohibishun and if I would make some more like that they would extend their prohibishun to prohibitin' me.

HY SYCKLE.

THE AGRICULTURAL BLOC.

A BOOK of the above title, by Arthur Capper, United States Senator from Kansas, with an introduction by President Butterfield, of the Massachusetts College of Agriculture, has just been added to "The Farmers' Bookshelf." This volume deals with the changing social and economic agricultural conditions of the past fifteen years. A detailed account of the conditions which led to the formation of the agricultural bloc, the accomplishments of this organization and its program for the future are here given in Senator Capper's clear, forceful style. The book, bound in cloth, contains one hundred and seventy pages. It can be secured through the Michigan Farmer office, 1632 Lafayette Blvd., Detroit, on receipt of \$1.25 for each volume.

News of the Week

Wednesday, December 6.

RUSSIA'S hand is seen in the Turkish peace demands at the Lausanne, Switzerland conference.—May or Couzens, of Detroit, who has been appointed to replace Senator Newberry, is an opponent of the Ford-Muscle Shoals scheme.

Thursday, December 7.

JOHN RUSSELL, an Ada township farmer, had his chest badly crushed when attacked by a bull.—Mrs. Carrie Chapman Catt is the first selected for the hall of fame as one of the dozen greatest living American women.—President Harding advocates changes in the immigration law so that more foreigners can enter the country.

Friday, December 8.

REPRESENTATIVES of American missionary and charitable institutions are asking Turkey's pledge against local injustices to Christian missions.—Georges Clemenceau, former French premier, says the League of Nations will not be necessary if he can get guarantees from the United States and England.

Saturday, December 9.

BY the King's edict, Ireland officially becomes a free state.—Famous Planters' Hotel, of St. Louis, closes its

doors. In the forty's and fifty's it was the social center of the south.—A New York woman leaves over \$1,000,000 for the care of animals.

Sunday, December 10.

DURING the past year ten thousand miles of federal-aided highways have been made.—Patrick J. Doyle has been elected mayor of Newport, R. I., for the seventeenth time.—General Leonard Wood refuses to become president of the University of Pennsylvania, in order to remain at his post in the Philippine Islands.

Monday, December 11.

AT a recent election, New Zealand polled a strong vote against prohibition.—The execution of four more rebels starts trouble in Dublin.—Rear Admiral H. McL Huse says that Great Britain is taking a big lead in navy equipment.

Tuesday, December 12.

THE French government flatly refused German chancellor Cuno's proposal with reference to the German debt.—Leonard Day, the San Francisco writer, has traveled 10,500 miles by foot and during that time existed entirely on charity.—Six casks of rum, distilled in 1762, were found in a cave near North Easton, Mass.

The LeBeau Alfalfa of Monroe County

*More than Seven Thousand Bushels of Seed Harvested from Old Stock
Alfalfa of Thirty-seven Years' Michigan History*

By J. F. Cox,

Professor of Farm Crops, M. A. C.

THREE Michigan townships, Ash, Berlin and Frenchtown, of Monroe county, have produced this year from seven to eight thousand bushels of high quality alfalfa seed.

Michigan has been little known as an alfalfa seed-growing state, and alfalfa seed production east of the Mississippi has long been thought impractical, but these three townships compare very favorably with the best alfalfa seed sections of Montana, Idaho and South Dakota in yield per acre and quality of seed. In fact, the yield is considerably higher this year than is usual in the northwestern states named. The seed is free from dodder and Russia thistle, and but little sweet clover is present. The native weed seeds are of a kind easily removed.

A great advantage of this Michigan-grown seed is that it comes from alfalfa which has been grown locally for more than thirty-seven years, and is thoroughly adapted to Michigan's climate.

This remarkable increase in alfalfa seed production will astonish Michigan farmers, but it is not at all astounding to the Michigan farmers mostly of old French descent who produced the seed; for did not Clement LeBeau, of Frenchtown township, begin harvesting alfalfa seed thirty-seven years ago, and have not they all been growing seed to meet their needs from the same stock since? It is true, they thought Clem LeBeau crazy when he first took up alfalfa and for several years they called him the "alfalfa hound," but LeBeau met with such success with alfalfa that after a few years his neighbors came to him for seed and practically all of the big crop in Monroe county is either directly from the LeBeau farm or from those who trace their seed to that source.

Not until the past few years has alfalfa seed been produced in considerable amounts, but enough seed was harvested annually for local demands and when good seasons came alfalfa seed was put on the market, some being handled by Michigan seed companies but much of it going to Toledo, where it was absorbed by the general trade. It is regrettable that Clement LeBeau is not alive today to experience the justifiable satisfaction which comes to those whose efforts do good, not only to their neighbors, but are of far-reaching benefit.

The value of this Michigan-grown

HELPS TO REDUCE COSTS.

EVERY cent we save in the cost of growing our crops is that much to the good for us. The picture here tells how I have found it possible to



reduce the expense in getting ground ready for seeding. I hitch my team with its load, to the roller which is pulled by the tractor. By doing this I am able to work both the team and the tractor to about their optimum capacity. I save a man's wages and these days that is no small item to the farmer.—C. W. Bigler, Wayne County.

seed from old stock, which has long been in the state, is apparent to Michigan alfalfa growers. In experiment station tests at East Lansing for the past two years the Monroe county seed has done as well as the best of Montana, South Dakota or Utah Common alfalfa. As much of this seed as possible should be sown in this state, hence the work of the Michigan State Farm Bureau in securing approximately two thousand bushels, and of several Michigan seed companies, in buying Michigan-grown seed for home consumption is to be highly commended. Without doubt a very large part of the two thousand bushels or more, secured by the farm bureau, would have moved out of the state and been lost to Mich-

bushels from twenty-five acres. His seed was secured originally from the Clem LeBeau farm.

Albert Myers, of Rockwood, got fifteen bushels from five acres. Old native LeBeau seed.

Edward Barton, of Rockwood, says he got thirty bushels from twelve acres. Old native seed.

W. N. Vaubien, of Rockwood, secured a yield of fifty-two bushels from sixteen acres. He has been raising LeBeau alfalfa for twelve years.

Fred Umstead, of Rockwood, has four acres of Grimm and four acres of LeBeau. Each yielded about two and one-half bushels per acre. He could see little difference between the two in the seed yield, but noted a more



Mr. Chapman's Enthusiasm for the Development of Alfalfa in Monroe County Has Done Much to Develop the New Michigan Industry.

igan farmers had not Mr. Delmont L. Chapman and Mr. R. C. Vivian, of South Rockwood, interested a number of seed growers and called a meeting addressed by Mr. Nicolson and Mr. Renwick, of the State Farm Bureau, early in November. As a result of this meeting local trade was benefited and Michigan farmers will have additional opportunity to secure an extensive lot of sound Michigan-grown seed.

Following are statements by some of the growers and threshermen made to the writer during a recent visit to the seed growing section of Monroe county:

Delmont L. Chapman, of South Rockwood, secured forty bushels of seed this year from eleven acres. This is the third year that seed has been cut. Mr. Chapman's alfalfa came originally from the LeBeau farm.

C. E. Reaume, of Newport, secured a yield of 102 bushels from twenty-one acres. His seed originally came from the LeBeau stock fifteen years ago. His oldest field is seven years old.

Dennis Reaume secured forty-six bushels from twenty acres.

A. L. Berns, of Newport, got forty bushels from seventeen acres. His seed originally came from Clem LeBeau's stock.

F. S. Masserant, of Newport, harvested one hundred bushels from forty acres. Mr. Masserant has been growing seed covering a period of thirty years. He has always sown his own seed for the last thirty years and secured the original stock from Clem LeBeau.

C. Brancheau, of Newport, secured a yield of fifty bushels from eighteen acres. The seed was originally secured from Clem LeBeau's farm.

Dan Cousino, of Newport, estimates that he will have sixty to seventy-five

branching, viney growth in the case of Grimm.

Duff Vinier, of Newport, reports twenty-six bushels from nine acres. His seed originally came from old LeBeau stock.

Bennie Fix, of Newport, estimates that he will secure from seventy-five to one hundred bushels from sixty acres. Mr. Fix is farming the old Clem LeBeau place, owned by Mr. Jim LeBeau, and has the original seed secured by Mr. LeBeau thirty-seven or more years ago. Mr. Fix has been on the LeBeau place for the past ten years and has taken a seed crop each year. He estimates his average yield as three bushels per acre.

Tony Coons, of Carlton, states his yield as nineteen bushels from seven acres.

Jim Shinovar, of Rockwood, harvested thirty bushels from twenty acres. He has grown the LeBeau alfalfa for sixteen years.

John Bodermiller, of South Rockwood, has been growing LeBeau seed for sixteen years, with an average of two bushels per acre. He expects to get twenty-nine bushels from eighteen acres this year.

Phillip Sourraut harvested twenty-nine bushels from eight acres, (old LeBeau stock).

John Roberts threshed one hundred bushels from thirty-five acres (old LeBeau stock).

F. Niedemier, of Rockwood, has secured sixty bushels from thirty acres (LeBeau seed).

There are many more who have produced seed this year and during the past year, but the above list can be taken as a typical statement of yields.

The threshermen of the district state that they have been handling alfalfa seed in small amounts for many years

but that during the past two years the seed crop has been a large one. Mr. J. Druyor, of Newport, a veteran thresherman rounding-out a half century of threshing this year, says that his season's run will be in excess of one thousand bushels, all of which he believes came from the Clem LeBeau source. Mr. Druyor has been growing alfalfa for the past thirty-seven years. He secured his original seed from Mr. LeBeau. This year he threshed forty-eight bushels from twenty acres.

Mr. Charles Westenova, of South Rockwood, has threshed over 1,000 bushels and expects to thresh about 1,500 before the season closes. Last year he threshed 1,700 bushels of alfalfa seed. He states that he has been threshing some alfalfa for the past fifteen years and that during the past two years the crop has greatly increased.

Mr. C. J. Sova, of Newport, expects to thresh over 1,500 bushels of alfalfa seed this year.

There are four other threshermen in the district, so that seed produced this year will easily run from 7,000 to 9,000 bushels. Practically all fields trace their origin back to the Clem LeBeau stock. The exact source from which Clem LeBeau secured his seed is not known. Mr. Chapman states that the Rev. Wesley Loose first grew alfalfa near Newport and that possibly Mr. LeBeau got seed from him. William Niedemier claims that his father brought alfalfa seed from Germany fifty or sixty years ago. Mr. C. J. Sova states that his uncle, Mike Sova, brought seed from Colorado thirty-five or forty years ago. It is certain, however, that the LeBeau seed has been grown for more than thirty-five years in Frenchtown and Berlin townships. Mr. LeBeau died ten years ago. His son, Jim LeBeau, of Newport, states that alfalfa of the original stock has been grown on the home place for more than thirty-five years, but he does not know from what source his father got the original seed.

The hardiness of the LeBeau seed under Michigan conditions is assured and this home-grown seed from a strain of known dependability is worth as much to Michigan farmers as common alfalfa seed from the northwestern districts.

Mr. J. W. Nicolson, of the state (Continued on next page).

HE KNOWS HIS SOIL.

STEPHEN SHEPARD, of East Jordan, is ever watching for materials with which to improve his soils. He is slow to give up tried methods of keeping his fields fit for pushing crops to big production. For the past thirty years he has counted upon his dairy



herd to boost crop yields. Soil problems are made less acute when the humus materials left over after the cows have taken milk from the home-grown crops, are held on the farm. Every field on Mr. Shepard's farm shows the aftermath of dairy feeding. One of the finest pieces of silage corn seen in two thousand miles of driving through the counties of the state last fall, was located upon this very farm. Mr. Shepard also had some good potatoes and he is one of the real high producers in the state, having one year grown tubers at the rate of 540 bushels per acre.

farm bureau, has secured upwards of 2,000 bushels of this seed in the field by purchase or on consignment, making careful inspection at time of purchase. This large supply will be handled as Michigan-grown seed and will go on the market with emphasis placed on its Michigan origin. Last year the farm bureau seed department handled about 450 bushels of this seed.

The people of French descent of Monroe county who have grown this old strain of alfalfa for a long period of years, and who are now producing it in quantity, are rendering an exceedingly valuable service to alfalfa growers in Michigan. They have proven that in favorable years alfalfa seed production pays well; in fact, the seed crop is the most paying crop of the county.

Without doubt seed production will spread to many other regions in Michigan. In addition to the Monroe district, several farmers of St. Clair county have secured three bushels or more per acre for the past two or three

years. Profitable seed production may well extend on the old lake bed soils of eastern Michigan. These soils are heavy clays, clay loams and silt loams well charged with lime and the mineral elements of fertility and are high in organic matter.

At the Michigan Agricultural College, Professor F. A. Spragg has been securing promising yields on light sandy soils for the past fourteen years and has developed the Hardigan, a high-yielding seed strain. Of this strain Mr. Olaf Nelson, of Aloha, Cheboygan county, harvested on light loam, eight and one-quarter bushels of seed from an acre last year and estimates that he will have thirty-five bushels of Hardigan seed from seven acres this year. Hardigan will be available in considerable quantity next year since over 150 acres are being grown by members of the Michigan Crop Improvement Association and will come into the second year next spring.

The alfalfa crop will be on a much

more dependable basis when Michigan grows a large percentage of home-grown seed. Large amounts of money, now being paid out to farmers in other states for dependable seed, will go to Michigan farmers. However, not more than eight per cent of the demands of Michigan farmers can be filled with Michigan-grown seed, if the entire crop is sold in the state, and most of our crop must be planted with northwestern-grown Grimm and hardy common alfalfa from the northwest.

Without doubt the early cutting of the first crop and the application of two or three hundred pounds per acre of sixteen per cent acid phosphate, or of bone-meal will greatly stimulate seed production. Fields in their third or fourth year or older, usually give the best seed yields. The many old fields in profitable seed and hay production in Monroe county furnish conclusive evidence that cutting for seed does not shorten the life or lessen the yielding ability of alfalfa fields.

Grasshoppers often cause great loss

to seed production but can easily be poisoned as advised by Prof. R. H. Pettit of the entomology department of the Michigan Agricultural College.

It is usual to take the second cutting for seed in Michigan but in years when the late spring and early summer season favors the heavy development of bloom, as is usual in dry seasons, the first cutting may make the heaviest yield of seed. The crop is cut when the seed pods are well browned, with a mower with buncher attachment. The crop is cocked in small cocks and allowed to cure from four days to a week, when it is threshed from the field or hauled into the barn or put in stacks and threshed later with a clover huller equipped with alfalfa seed screens. The straw makes very good winter roughage.

Seed production in Michigan on a commercial scale is not a "flash in the pan" and apparently Michigan is established as an alfalfa seed producing state and may in the future become important in seed production.

The 1922 International the Best Ever

Michigan Farmers Gobble Up the Lion's Share of the Winnings in the Hay and Grain Show, Besides Taking a Long List of Live Stock Prizes

HISTORY has just cuddled into her lap the most phenomenal session of the International Live Stock Exposition since its organization in 1900.

This 1922 gathering of the supreme court of the pure-bred live stock industry and fat stock business, the wonderfully inspiring display of hay and grain from every nook and corner of the United States and Canada, and a most remarkable series of educational features relating to general agriculture and rural life, these all go to make this event the year's leading exponent of visual education in the great forward movement for more economical farming in America.

More and more are the farmers of Michigan coming to realize that the International is a real school laboratory. Here they can don their aprons and put in and get out every bit as much in practical information for their own business of farming as can the farmers of any other state in the whole nation. This has not been so fully appreciated as now. The winners in the hay and grain department have done much to bring home to a host of our farmers these educational advantages.

And Michigan's winnings with this year's hay and grain exhibits is just as outstanding as during the past two seasons. Our farmers won in spite of the fact that every other interested state and the Dominion have gone after the premiums with determination since Michigan made such a wonderful showing two years ago.

Michigan Repeats in the Great Hay and Grain Show.

Yes, there was an undercurrent of belief among the hay and grain men of other states that Michigan could not do it again. But she did. She repeated her victories of the past two years. In all, the judges gave her over one hundred awards in this department.

With five regions competing in winter white wheat Michigan took the first five prizes. The best sample of hay in the show went to A. W. Jewett, of Mason, Michigan. Of the thirty-five prizes for oats in this region Michigan was awarded eighteen. Thirteen of the twenty-five awards for red winter wheat went to Michigan. In the classes of alfalfa hay she captured six out of fifteen places. In red-clover hay classes, five out of ten. In timothy the first six out of twelve. Even in soybeans the judges gave Michigan five

out of ten positions. And so the story goes.

This story will appear in detail in the next issue of the Michigan Farmer. It is being written by the man who had the exhibits in charge, and will be an inspiration to every red-blooded Michigan farmer.

M. A. C. Leads All in Live Stock Prizes.

Winnings of the Michigan Agricultural College at the International Live Stock Show at Chicago exceeded those of any other institution or individual. Together with the prizes captured by farmers of the state who sent crop exhibits to the hay and grain show, these winnings placed Michigan in a position of supremacy among all the states represented at the annual exposition, which has come to be the nation's agricultural classic.

In the horse exhibits the college took first with the four-year-old stal-

tion this year. In practically every class the keenest competition existed and honors were well distributed over the country. Shorthorn breeders were delighted with taking grand championship honors, which went to W. J. and B. A. Thomas, of Shelbyville, Kentucky, on Chenoweth Jock. Within the breed the senior and grand championship bull was captured by Carpenter & Ross, of Ohio. C. H. Prescott & Sons, of Tawas, Michigan, topped the strong ring of junior yearlings with Richland Conqueror, while Richland Augusta, from the same herd, after a hard fight was placed second in the two-year-old class.

The Herefords.

Herefords had a gala week, the entries marking a new high record in number, while the quality was beyond reproach. Naturally it was very much a western show. However, the Michigan Agricultural College was placed

You will read with great delight the detailed story of the performance of Michigan farmers at the International Hay and Grain Show. It will appear next week.

lion Jupiter, and with the yearling mare Pervenche, both Belgians. Other places were third for two-year-old mare, also Belgians, and thirds for three and four-year-old mares, and fourth for yearling stallion, among the Percherons. A two-year-old Clydesdale stallion took fifth.

THE CATTLE SHOW.

Never before in the history of the live stock shows and expositions has there been brought together such an abundance of high-class cattle exhibited as at this year's International. In all there were 2,310 entries, of which 1,725 were breeding animals and 585 fat steers and heifers. Apparently the tail-enders were pretty much left at home. The fat stock was remarkably uniform in size and conformation as well as finish and quality. The fat animals all through the cattle show possessed a wonderful depth of flesh and smoothness in finish.

The Shorthorns.

Chicago never saw a better show of Shorthorn cattle than were on exhibi-

sixth, and Sanders Farm, of Eaton Rapids, tenth in the fat stock classes.

The Angus.

Breeders of Angus cattle did not pile up the entries as did the Shorthorn and Hereford crowds. The quality, however, was particularly good, old followers of the ring declaring that no Angus show ever surpassed in uniformly high excellence, the one of this year. Competition was close in most of the classes. Michigan herds coming within the winnings were those of W. E. Scripps, of Orion; Woodcote Stock Farm, of Ionia, and the Michigan Agricultural College.

Carlot Divisions.

One of the greatest features of the live stock exposition was the showings in the carlot divisions. Shorthorns and Herefords were there in large numbers, and although the entries of Angus were fewer they took away the coveted honors of the show. John Hubly, of Illinois, has come to the International four times, and three times his cattle have carried off the cham-

pionship awards. Even greater to his honor this year is the fact that all the Angus in his champion lot were bred by himself.

Edward P. Hall, of the same state, and many times the feeder of the International champion carlots, had a beautiful load of two-year-old Angus that were a marvel in flesh and type, but a little large for present-day packer demands, and they had to take a step under the yearlings.

The yearlings in the yards sold at an average of \$16.93, the range being from \$16 to \$18.50. The two-year-olds went at an average of \$16.70. There were eighty-four loads of fat cattle, nine of short-fed and twelve of feeders.

THE SWINE SHOW.

This year's exhibits equaled in many departments those of former years, although as a whole it was not as large as in 1921. In all, 1,146 entries were made, with 616 in breeding classes and 532 in fat classes. It appeared to be the general opinion among swine men that fewer tail-enders were in the pens this year than at any previous sessions of the great International. The college exhibits were especially good in this department.

Duroc-Jerseys.

The Duroc people had 119 animals entered in breeding classes and 131 in the fat classes, this being the largest number of entries for any breed of swine. Exhibitors were largely from the east. The majority of entries were prize winners at other fairs and expositions. Grand champion boar was awarded to Chesney Farm, Lake Villa, Illinois, on Sensation Improver, while grand champion sow went to Mahan & Neff, of Osborn, Ohio, on Miss Pal Perfection 2nd. The M. A. C. was the only exhibitor of this breed from Michigan, and the entries were in the winning twice in the fat classes. The grand champion barrow was a Duroc exhibited by the Oklahoma College.

Poland Chinas.

Of this breed there were fifty-eight entries of breeding stock and ninety-two of fat stock. Both the grand champion boar and sow were awarded to Iowa State College. Michigan entries were confined to exhibits by the Michigan Agricultural College, that institution winning third on the pen of three barrows farrowed between September 1, 1921, and March, 1922; fourth in pen of three barrows, farrowed between June 1 and September 1, 1921, and sev-

(Continued on page 657).

The Handy Man's Corner

THE following letters have been selected from those sent the Handy Man to receive the prizes offered in the recently announced contest. We wish to announce further, that a pair of combination cutter pliers will be sent to each of the writers of the five short letters giving the best suggestions for saving time about the farm buildings. Letters should be brief and must be mailed before December 23. Address them to The Handy Man, Michigan Farmer, 1632 Lafayette Boulevard, Detroit, Michigan.

FEEDS THROUGH CHUTES.

MOST basement barns have the horse stalls below and the granary and hay mow above. Usually there are hay chutes leading to the feeding aisles in front of the stalls. In place of having a large feed box below in which grain is kept for the horses, I run three-inch conductor spouts from the floor above to each feed box in the manger. I also have hay chutes leading to each manger from the floor above. This enables me to feed both hay and grain from the barn floor.—E. A. Thorne, Livingston County.

A REAL TIME-SAVER.

OUR cow stable is fifty feet long. At the end we have located a two-foot spool or drum. On this spool are wound sprocket chains which are spread on the spool to the same width as the gutter in the stable. There are fifty feet of the chain wound around the spool at the rear end of the gutter all the time. This is unwound when we clean the stable.

Another fifty foot of chain, with cleats on about every two feet apart, lays in the bottom of the gutter all the time. Then there is enough additional chain to attach to another two-foot spool in the manure shed. The two spools are attached to shafts with gears. The gears are operated with a gasoline engine.

When we clean the stables we sweep the litter into the gutter and then start the engine and watch the manure move out into the manure shed. This takes about a minute. Then we reverse the gear and wind the surplus chain on the spool at the rear of the gutter. This leaves the cleated part in the bottom of the gutter ready for cleaning the barn again.

We find this a very convenient way to dispose of the manure and there is nothing for the cows to kick at if they are so disposed. The outfit is also sanitary.—Charles T. Schmeeding, Oceana County.

A CONVENIENCE IN OPERATING STABLE DOORS.

BY having a hand-hole in barn doors where stock is apt to rub the doors open, I can be assured that the doors

are securely hooked on the inside. This also makes it easy to open the doors from either side. This often saves many steps as one is frequently required to go around the barn in order to get through a door.

I mark out on the door where the hand-hole is to be inserted. I then cut across the top of this hand-hole, put on the hinge and then saw out the remaining portion. On the bottom the cut is beveled to keep storms from beating in. A knob is bolted on the bottom of the outside to make opening more convenient.—E. Glen Fuller, Washtenaw County.

SAVES STEPS.

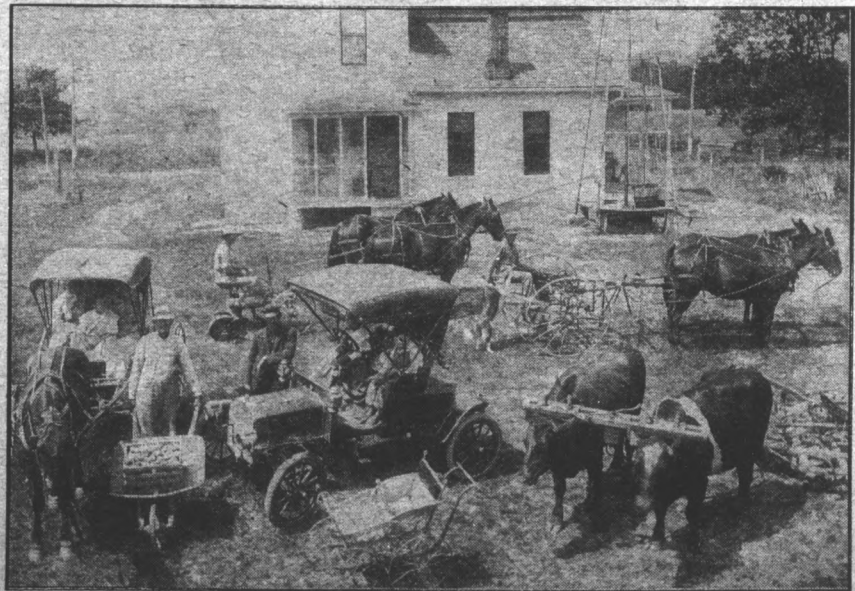
HERE is a little suggestion which saves me many steps during the course of a year. I carry two pails of slop to the barns. I button the lantern to one suspender and an empty pail to another. By this means I can handle all four items at the one trip.—Ed. Elson, Berrien County.

MICHIGAN HAS LARGEST FARM BUREAU MEMBERSHIP.

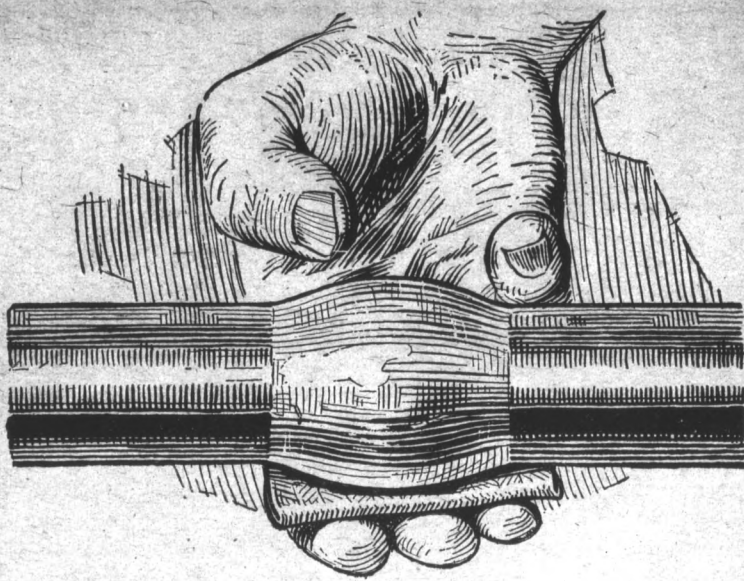
ACCORDING to information secured at the American Farm Bureau Federation offices by Clark L. Brody, state manager of the Michigan Farm Bureau, Michigan has the largest paid-up farm bureau membership of any state in the Union. This is indeed good news, as it indicates, in a way the success of the recent county farm bureau membership drives.

MICHIGAN SEED OUTYIELDS OHIO-GROWN SEED.

EIGHTY members of the Morrow County Farm Bureau of Ohio tested seed potatoes with their own this past season. They purchased one and a half cars of the Michigan seed stock. All of the reports are not in, but the first seven to be received, gave an average yield of 142 bushels to the acre from Michigan seed as compared to 102 bushels to the acre from the Ohio-grown seed. As to marketability, ninety per cent of the Michigan seed crop was saleable, while only sixty-nine per cent of the crop grown from Ohio seed were of market standard.



This Farmer Has An Unusual Collection of Farm Power. Can You Beat It?



Wiping a joint

WHEN two pieces of lead pipe are to be made into one continuous tube, the plumber melts a piece of solder and applies it to the joint, using a cloth pad to cover his hand.

He "wipes" and smooths the quickly-cooling alloy around the joint. When the job is done the pipes are solidly joined, the wiped joint looking like a swelling of the pipe.

* * *

One of lead's oldest uses is for pipes in plumbing, and this is one of the most important of its uses today. This is due to its great durability. Lead pipes last for centuries.

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* * *

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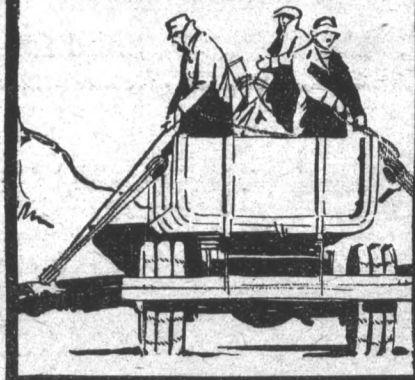
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DIVISION OF PROPERTY.

What rights has a widow on both real and personal property where there are no children?—A. B. C.

In the absence of a will one-half of the estate goes to the widow if there are no children, and one-third if there are children.—Rood.

SECURITY FOR CHILDREN'S BOARD.

What recourse have I on the parents of children I am boarding if they should come and demand the children, saying they will settle the board later? Can I hold the children and collect up to the date they settle?—W. R.

There is no remedy for collection of the board of the children other than a legal action. The children cannot be held for the board, but any baggage they had with them may be retained.—Rood.

RAILWAY FENCE THROUGH FARM.

Could I force the railway company to put up woven wire stock fence? The railroad runs through the center of my farm and is within twenty-five feet of my house and barn, and I do not want any more barbed wire on my farm. The railway company takes 100 feet across the whole forty.—J. J.

The railroad company is not bound to build any particular kind of fence other than such as will turn stock. It may be of wood, stone, barbed wire, woven wire or any other suitable material and they have their choice in that. Very likely you might agree with them for a different kind of fence if you would make application and perhaps agree to pay the difference in cost between the fence you want and the wire fence, or perhaps do the work of putting it up.

Of course, the railroad company has no right to take any additional land at this time without contract with you or condemnation proceedings.

RIGHT TO SELL STRAW.

I am the renter of a farm and would like to know if I have a right to sell the straw. There is nothing mentioned about it on the lease.—J. B.

If J. B. is paying money rent, he has the right to sell the straw. If he is renting on shares and the contract amounts to a lease, the same is true. If the contract amounts to a hiring, payable in a share of what is produced, the probabilities are that he would be entitled to demand his share of the straw. For that purpose it would be necessary to examine the wording of the contract.—Rood.

GRASSES FOR LOW LAND.

Some time ago I read in the Michigan Farmer of a combination of seeds for low land. This mixture consisted of two pounds of red top, six pounds of orchard grass and six pounds of alsike clover per acre. I have some low land to seed down. I bought the seed, but since doing so several persons have advised me not to sow the red top. They say cows will not eat the hay, and that it is more difficult to get rid of than quack grass. How about it?—G. H.

Red top has a very wide range of adaptability, being the least sensitive of the cultivated grasses to soil acidity and the lack of drainage.

It is also one of the best grasses to sow on poor, run-down land; however, legumes such as sweet clover and soybeans are usually to be preferred on this type of soil. It is likely because of the very wide range of adaptability that a small amount of red top was included in the mixture that you mention.

It is true that red top is not as palatable or well liked by live stock as Kentucky bluegrass, timothy and orchard grass. While red top forms a fairly dense sod, it is not nearly so difficult to eradicate as quack and should not be classed as a pest with quack grass.—C. R. Megee, Associate in Farm Crops, M. A. C.

OLEANDER FAILS TO BLOSSOM.

I have a lovely oleander plant which refuses to blossom the last two years. Last summer I repotted it, using rich soil, but it did not bloom. It grows all the time and looks healthy. It is a fine large plant about six feet in height. I do not know what to do for it.—Miss M. D.

I think all the plant needs is a rest. Without knowing what season of the year the plant was repotted, I infer that the plant has been kept in a condition of activity and my suggestion would be that either a change of temperature, or withholding water for a time—not altogether because it is an evergreen plant—be given. The plant should not be kept saturated. The temperature should be lower instead of higher.

If these conditions can be given to it at this time, it would not necessarily flower as freely next summer as it would if the rest had been more natural or for a prolonged period.—Thos. Gunson.

PLANNING THE HOG PASTURE.

I am planning crops for feeding the young pigs next summer until the corn is ready to hog down. I will have about sixty head and no clover nor corn to feed them. What spring crops can I sow, and approximately how many acres will it take to run this number of pigs through?—L. O. W.

Sow a couple of acres of oats and peas thickly as early as the condition of the soil will permit. Follow with about the same acreage of Hubam clover, sown broadcast, ten pounds per acre. About corn planting time sow two or three acres more to dwarf Essex rape, four pounds per acre in drills, or seven pounds per acre broadcast.

On good soil this should furnish sufficient forage for sixty pigs from weaning time until corn is ready. Some grain in addition will be necessary, however, for satisfactory results. The home-grown supply of grain may be provided much earlier by growing some barley and oats. They will be ready to thresh and grind a month or six weeks ahead of the earliest corn.—Pepe.

REMOVAL OF LIGHTING SYSTEM.

A has a farm for sale or trade. B trades with him. The summer previous to trading his farm A has a lighting system put in the house. The party putting it in took A's note for \$375 without other security than A's and his wife's signatures. A stated at the time he traded his farm that his lighting system was not paid for, otherwise nothing more was said concerning it. Can the party that put the plant in take it out without B's consent?—L. B.

If there was no agreement between A and the seller of the system, that title should remain in the seller until the purchase price was paid, the title passed to B with the farm, but if there was an agreement that title should remain in the seller of the lighting system until paid for and B knew that the purchase price had not been paid, the seller would have the right to take the lighting system out unless the purchase price was paid, provided he could do so without very materially injuring the rest of the house.—Rood.

Our First Potato Grower

A Sketch of Ernest Pettifor and His Family

By T. F. Marston

RECENTLY I had the pleasure of calling at Lake View Farm, Elmira township, Otsego county, the home of Ernest Pettifor, the man who won first prize on Petoskey Rural Russet potatoes at the International Potato Show at Duluth, Minn., on November 3-4-5, 1922.

Mr. Pettifor answers very well the question so often asked of the development bureau, as to whether a man can come to northern Michigan and take up a piece of wild land and make good. Mr. Pettifor, in 1887, arrived in Elmira township, Otsego county, with not the slightest knowledge of farming, in fact, his training before had been as gentleman's personal valet in England where he came in touch with the highest class of people of England. He

lake when sawing white pine logs forty years ago. In the shop was also a mill for grinding all the grain for the live stock, and graham flour for the household.

Being a rainy day when we called, most of the family were engaged in cleaning up various odd jobs which are always to be found on a farm, but preparations were going on in the sitting-room to print a lot of pictures from the negatives taken by some members of the family.

The house, a large, well-constructed building, was erected by Mr. Pettifor himself, from timber cut off the land. It was finished in solid oak and cherry. The finishing lumber was worked out by his own hand, though he had no knowledge of building or carpentry.



Mr. Pettifor Shows Some of His Prize-winning Potatoes. He is Also a Good Dairyman, Poultryman and Apiarist.

however, had a liking for the outdoors and farming, and determined to learn. He found a partially cleared forty and paid \$160 for it, then married. To his wife, of course, must be given much credit for the success which he has achieved.

As to his various struggles in learning the farming game it is not necessary to relate. He was built of the right stuff. On my visit I found a farm family which one can almost imagine as being sufficient unto themselves. Mr. and Mrs. Pettifor have eleven fine boys and girls, some grown, one being a married daughter who lives on a different part of the farm in the old original home.

Mr. Pettifor is of medium height, rather slender, uses splendid language and is a most interesting conversationalist. His versatility was demonstrated to us when we found him knitting himself a sweater; not just an ordinary sweater but one in which any knitter, however expert, might take pride. Commenting on this we were shown a photograph of practically all of the family knitting during war time.

The family is now engaged in running a dairy of fifteen well-bred cows. Recently they have placed a Registered Jersey bull at the head of the herd. They produce honey on a moderate scale and have a winter bee cellar constructed by themselves which seems to be, so far as my knowledge is concerned, of the latest design and approved type. A hen house, also built after approved plans, houses a large flock of beautiful White Leghorns. The machinery was up-to-date, the tool house was supplied with a full line of carpenter's tools, and even some machinery operated by the tractor. Here in this shop all the bee hives were constructed, even the frames being sawn from clear white pine tops which the father-in-law had dumped into the

Yet no carpenter could find fault with any part of his construction work.

He erected all his buildings and taught himself blacksmithing, having a well equipped shop which he bought of a lumbering concern when it went out of business in that particular locality.

The farm is beautifully situated on rolling land. There is a small lake on the farm and near the house and a larger one not far away which furnishes most excellent fishing.

Mr. Pettifor agrees with what has been stated so many times that under normal conditions one crop of potatoes often pays not only the cost of raising but also the original cost of the land.

Certified seed potatoes have brought Mr. Pettifor fame as well as financial profit.

On their farm they also operate a sugar bush, manufacturing maple syrup which I should judge is away above the required standard of sugar content.

Any community can feel proud of farmers who will advance along progressive lines as has been done in this particular case. It is interesting to know that in everything on the Lake View Farm the idea of high quality seems to be the keynote.

Can a man make good, I think is answered by, it depends upon the man, and let me add, his wife and family.

CANADIANS USE MUCH BUTTER.

FIGURES just compiled indicate that each person in Canada consumes a total of twenty-seven pounds of butter each year. This is the largest per capita consumption in the world. The United States ranks second with an average of eighteen pounds per person each year. Sweden leads in the consumption of milk, and Switzerland in the amount of cheese consumed.



Easy to slip off and on—one of the big convenient features of the "U. S." Walrus

In and out of 'em a dozen times a day

Slide 'em right over your leather shoes—snap the buckles shut—and you're ready for the stickiest muck and mire the barnyard offers.

You can walk in mud or icy slush—these big overshoes are as watertight as a boot. And their heavy fleece lining keeps your feet always warm and dry.

Then when you're through, a pail of water washes off the caked dirt in a flash! Mud has a hard job sticking to that smooth rubber surface.

Wives have a real interest in the "U. S." Walrus, too! No miry tracks on the kitchen floor—no dried mud around the house! Just flip open the buckles—kick your Walrus off—and you walk inside with clean, dry feet, no matter what the job outside has been!

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Annual Meeting of Fruit Men

THE meeting of the Horticultural Society at Grand Rapids, December 5-7, was especially significant because it was the first annual meeting to be held in what may be called the new era for horticultural development in Michigan. Now, as never before, it looks as if Michigan was going to make an organized effort to gain for itself the name as the leader for the production of the fruit products for which she is so naturally adapted. At this meeting the fruit men gave their hearty endorsement to a \$500,000 program for the extension of the horticultural service at the college. This program includes a new horticultural building.

The convention was full of pep and much interest was taken in the discussion of the problems which gave the fruit growers serious trouble during the past year. The early part of the program was given to a discussion of the control of plant diseases and insects, while that of the second day was given more to marketing problems, and the last day to small fruit and fertilizers.

Professor Dutton, who gave the principal talk Tuesday morning, said that cherry leaf spot could be very satisfactorily controlled by thoroughly spraying with lime-sulphur or Bordeaux mixture. Dusting has proved a failure. And no treatment has been so disastrous during the past year that many orchards have died from this disease.

C. I. Lewis, editor of the American Fruit Grower, urged Michigan growers to advertise in order that they might compete with the western fruit propaganda, and Prof. V. A. Gardner, the new head of the Horticultural Department of M. A. C., in his discussion of pruning said that it did not increase the production of the tree but was effective in proving the grade, size and color of the fruit. Professor Gardner urged a moderate common-sense pruning practice in conjunction with a good fertilizing program in order to increase the orchard profits.

The features of the Wednesday morning program were the discussions of the grape berry moth, by Prof. R. H. Pettit, of M. A. C., and G. A. Runer, of the United States Bureau of Entomology. The consensus of opinion regarding the control of this insect was that more thorough spraying was the chief thing necessary.

The students' speaking contest was chock full of interesting information, which was ably presented by the student speakers. The winners were H. J. Wilkinson, B. Cummings, and W. G. Pritchard. In the judging contest, G. W. Wright was first; C. Mathewson and L. Bristol tied for second, and R. H. Watts, third.

The annual election which followed the contest resulted in the election of A. J. Rogers, of Beulah, as president, and the re-election of T. A. Farrand as secretary, and J. Pomeroy Munson as treasurer. Prof. A. R. Gardner was elected on the executive committee to succeed Prof. C. P. Halligan. R. H. Coryell, of Birmingham, succeeded E. J. VerDuyn, of Novi. Mr. H. H. Newton, of Hart, was elected to fill the vacancy caused by the election of Mr. Rogers to president, and Russel Evart was chosen to succeed A. M. Bullock, both from Lapeer. Robert Anderson was re-elected.

The outstanding features of the whole meeting was a speech by Hon. Jason Woodman, of Paw-Paw, and a member of the State Board of Agriculture for the past seven years, who in a very human interest way told of the importance of the fruit industry to the state, and of the desire of the state board to cooperate with fruit growers

in furthering this industry. After this speech, Professor Gardner gave a short talk on the proposal for a new building. Then a resolution favoring the erection of this building and the further extension of the horticultural department was unanimously passed by the convention.

The other subjects on the program for that day were, "Orchard Cover Crops," by Prof. Laurence Grenne, professor of horticulture of Purdue University. "Cooperative Marketing of Perishables," by N. R. Peet, manager of the Western New York Fruit Growers' Packing Association and a discussion of the problems of the cherry industry by W. G. McCool, manager of the Grand Traverse Packing Company, Traverse City. A very interesting talk on pre-cooling, by Henry Welton, secretary of the Lincoln Fruit Growers' Association.

The last day R. B. Wilcox, of the United States Office of Fruit Disease Investigations, and Prof. R. A. Marshall, of the M. A. C., gave a discussion of the raspberry disease situation. There is great need for improvement for the control of raspberry diseases, and in order to facilitate this improvement a State Berry Growers' Association may be formed, in order that thorough inspection and a certification of plants may be accomplished. Then county agents gave the results of fertilizer tests on fruit in their counties. These reports show the great value of commercial fertilizers to increasing fruit production.

The final session of the convention was devoted to a discussion of extension work in fruit by T. A. Farrand, extension specialist of M. A. C., and secretary of the State Horticultural Society. He showed the need of more work along this line. F. L. Bloom gave a final talk when he discussed the advantages of marketing through the Farm Bureau Produce Exchange. Mr. Bloom urges growers to unite with their cooperative societies and in return ask the societies to allow the exchange to take care of their selling problems for them.

The mid-winter meeting of the State Horticultural Society will be held at Paw Paw. This meeting will probably be held early in March.

The American Pomological Society has been invited to hold its next annual meeting at Grand Rapids. It is understood that the society is favorable to Grand Rapids as a meeting place.

Spud Producers Get-Together

WHILE the fruit growers were in session at the Press Hall, the Michigan Potato Producers' Association were talking about spuds in the ball room of the Pantlind Hotel. Two busy days were spent in discussing the general potato situation and the improvement of the Michigan product and its markets.

Mr. W. P. Hartman, in his talk on "The State Supervision of Market Grades," said that Michigan had taken a great step forward in adopting the Russet Rural as a standard variety, but he thought that an advertising campaign to overcome the prejudice against dark skinned potatoes would prove very profitable. He suggested some slogan such as "Petoskey Russet, the Potato Supreme Quality in the Russet Jacket," to be used in connection with this campaign.

H. L. Barnum, of the Potato Growers' Exchange, emphasized the need of better grading machinery and more careful grading, and D. L. Hagerman urged the formation of a three-hundred bushel potato club. He said that under the present certification plan, a

(Continued on page 644).

PEAT AS A FERTILIZER.

DO not count too much on peat. Its fertilizer properties are questioned by federal investigators. It is not to be compared with stable manure or mineral fertilizers as a means of increasing crop production.

By introducing bacteria into peat, remarkable fertilizing results are alleged, but tests have not substantiated such claims. No satisfactory process for bacterization of peat has been discovered which materially improves it for fertilizer.

HOW MANY ACRES CAN YOU PLOW IN A DAY?

THERE is a wide difference in the number of acres that can be plowed in different types of soil. The time of the year and the condition of the team also determines the quantity of land that can be turned down during the ordinary ten-hour day. On three hundred twenty-four Ohio farms it was found that the man with a twelve-inch walking-plow, drawn by two horses, covered an average of 1.3 acres a day. The man with a fourteen-inch sulky plow and three horses turned 1.9 acres a day. The man with a tractor drawing a double gang plow got over 5.8 acres in a single day.

LEGUMES FOR SHEEP.

IT is what goes into the sheep's stomach that determines how the owner will close his books at the end of the year. During the past year twenty-seven owners of fine woolled flocks kept strict accounts of their herds. From these accounts it was shown that farmers feeding a limited amount of good alfalfa hay and giving attention to the lamb crop, received profits even with wool and mutton prices at the level they have been this past year.

The five farms where wool was produced most economically showed an average cost of 19.4 cents per pound. The remaining twenty-two farms required 37.5 cents to produce each pound. The best farms raised forty-one lambs per one-hundred head of sheep, while the flocks that lost money raised an average of thirty lambs per one hundred sheep. These records were taken in Morgan and Noble counties, Ohio.

PLANT MORE POTATOES PER ACRE.

TESTS conducted by the county agent in Erie county, Pa., last year indicate most clearly that it is well to plant plenty of potatoes per acre. Heavier plantings, in these tests, made bigger yields, and produced the added yields economically. Yields were as follows:

Amount Planted.	Yield Per Acre.	Yield Above Seed.
27 bu.	194 bu.	167 bu.
15 bu.	176 bu.	161 bu.

From this you will see there is a net gain of six bushels per acre, after the amount of seed used for planting is deducted. When seed potatoes are not too high, this is worth while.—E. A. K.

MICHIGAN HIGH IN POTATO PRODUCTION.

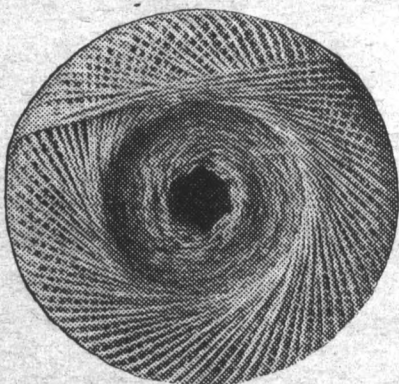
ACCORDING to Verne H. Church, agricultural statistician, Michigan produced 10,626,000 bushels more of potatoes this year than in the year 1921. This year's production was 37,856,000, as compared with 27,230,000 bushels in 1921. In total production, Michigan ranks second among the states of the Union. Wisconsin taking first place with 39,360,000 bushels.

Says Sam: A winter without books is like fishing without hooks.



Ask For the Original "BIG BALL"

The twine that is wound into these new "Big Balls" is just the same high-grade Harvester twine that you have been using for years—made more convenient and economical by an improved system of winding. You put two balls in the twine can—same as ever—but what a difference in the amount of grain they bind. The new winding increases the footage, per ball, by 40%—six "Big Balls" do the work of ten of the old-style balls—and you make only three-fifths as many stops in the field for twine.



Only Harvester brands of twine have the patented, reinforcing cover shown in the illustration above. Even after the entire center has been used out, the patented cover stands firm and free from collapsing—you use all of the twine—none need be wasted. When you buy your twine for next season, insist on getting the "Big Ball"—genuine Harvester brands have the patented cover winding.

McCormick Deering International Binder Twine

The "Big Ball," with the patented cover winding, is one of the greatest improvements made in binder twine in many years—and you can get it only in the Harvester brands. Next harvest season McCormick-Deering dealers in practically every community will be prepared to furnish you with these good brands in the "Big Ball" winding. You cannot afford to deny yourself the many advantages of fewer stops in the field; less likelihood of snarling, collapsing, and tangling; and less bulk to store, handle, and haul.

Now is a good time to plan for next harvest's requirements. Consider every angle well. You have always known Harvester twine to be of unquestioned quality—now you have the added advantage of the "Big Ball" winding. Assure yourself a full supply of this good twine by making arrangements with the McCormick-Deering dealer next time you are in town, for delivery before harvest time.

INTERNATIONAL HARVESTER COMPANY

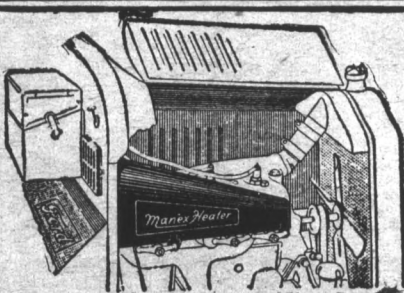
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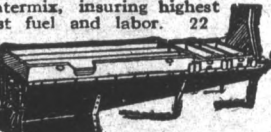
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SPUD PRODUCERS GET TOGETHER.

(Continued from page 642).
field which averaged 125 bushels per acre brings as much money as the one yielding 300 bushels. He thought it was due higher yielding fields to give them special recognition as the seed from such fields was worth more.

V. C. Church, state agricultural statistician, gave an outline as to his method of getting potato statistics, and R. H. Schumaker, local representative of the United States Bureau of Markets, told of the value of the government market reports. President Thos. Buell told of plans to better the state certification service so that Michigan would hold her reputation as the leading state in this work.

A good recommendation for Michigan seed was given by E. M. Nixon, of the Pennsylvania State College, when he said that actual tests proved that Michigan certified seed potatoes were far superior to those of other states, as they were much more uniform. Requirements of the seed grade of Ohio and of Indiana were given by C. W. Waid and S. C. Gaylord respectively. Both of these men highly praised the Michigan seed stock. F. L. Bloom, who has had a lot of experience in marketing, gave some pointers on potato market requirements. Dr. William Stewart, of the United States Department of Agriculture, gave his views on potato growing from a nation-wide standpoint. The results of experimental work of potatoes given by potato specialist J. W. Weston and H. C. Moore, told of his field observations during the past season. Thursday evening the potato men gathered at a special supper at which talks were given by Dr. Nixon; County Agent L. L. Drake, of Antrim county; Keats-K. Vining, Kent county agent, and Hon. Jason Woodman, who told of his long and wide potato growing experience. Carl F. Barnum concluded the evening's program by speaking on the regional use of certified seed.

All of the sessions were well attended and the interest in the program was keen. The meeting brought to the Michigan growers a realization of the value of the good work done in this state which has made it a leader, but it also brought the thought that continued improvement was necessary if Michigan was to hold the lead. Better potatoes instead of more potatoes was the fundamental thought of the whole convention.

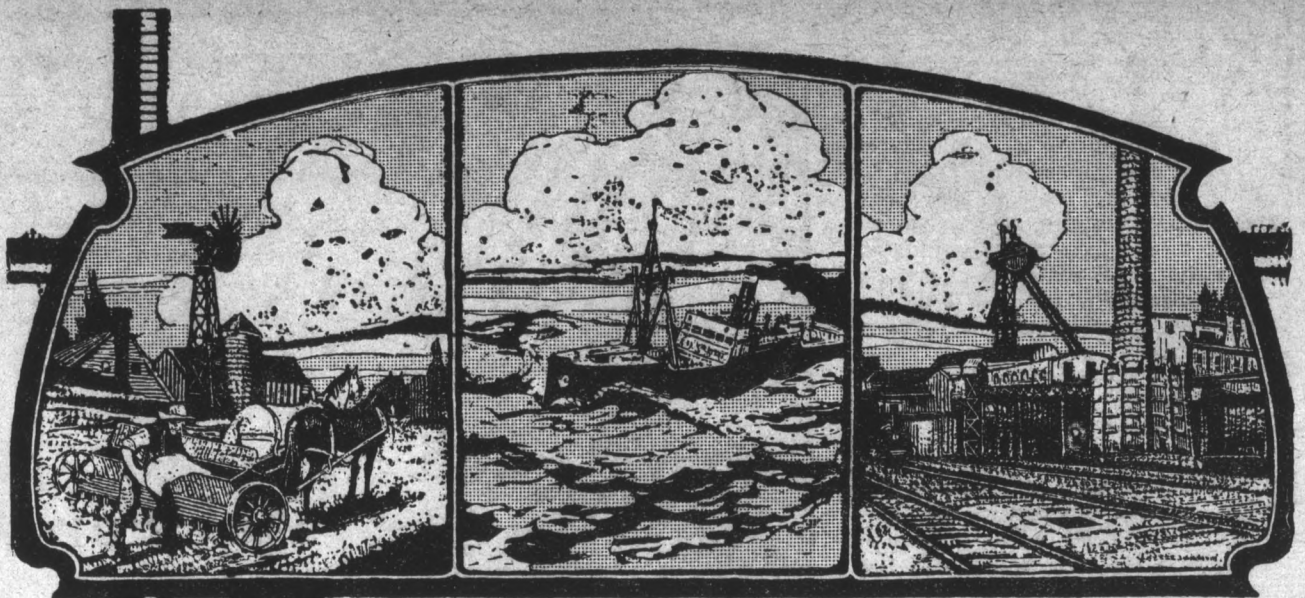
Apple and Potato Show

THE Michigan Apple and Potato Show had the finest exhibit of Michigan apples that was ever gotten together. The potato show also had such quality products exhibited that the winner at the big International Potato Show in Duluth, Ernest Petifer, of Elmira, received only honorable mention.

A commendable fact with reference to the apple show is that this very good exhibit was made up almost entirely from counties which have not been recognized as in the fruit belt. Benzie county was really put on the map as a fruit state by its winnings and showings at this exhibition. For the best and largest display, A. Buchanan, of Englishville, received first prize. For the best collection of ten varieties, R. C. Newton, of Hart, won first prize.

H. Shafer, of Sparta, got first in the ten best plates of any variety by showing some of the finest Michigan Snows ever exhibited. The grand champion plate of the entire show was J. R. Braman, of Grand Rapids.

(Continued on page 657).



ASK FOR POTASH

The present conditions in the business of the farmer and in the fertilizer industry call for serious thought. Both are going through a readjustment period, with its hardships and doubts.

The farmer may well ask whether he is using the most profitable fertilizer. The fertilizer salesman may well inquire whether he is selling the kind that will do the farmer the most good, and lead to larger sales in the future.

During the war America could not get Potash, and the use of acid phosphate increased. Central Europe could not get phosphates, and the use of Potash Salts increased. Today plenty of Potash can be had at less than pre-war prices. Now is the right time to restore the balance by using more Potash in the fertilizer formulas than the average amount used before, 5 to 10 per cent.

Crops take from the soil very much more Potash than phosphoric acid. On any soil where Potash has been profitable it is not unreasonable now to use at least as much Potash as phosphoric acid. Ask the fertilizer agent for prices on this kind of goods, and rebuild your soil while Potash is cheap.

Recently it has been shown that a lack of available magnesia causes serious injury to important crops on some soils. German Kainit and Manure Salts furnish this soluble magnesia without extra cost.

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furnishes this nitrogen in the cheapest and most available form which gives immediate and lasting results.

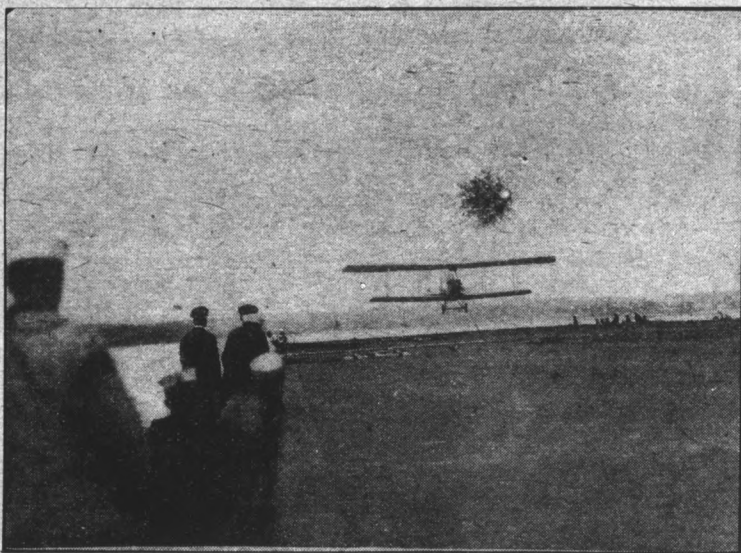
A new series of Bulletins with valuable information on the growing of all crops is now being issued. They will be published at intervals over a period of a year or more and should be in every farm library. A post card with your address asking for my Bulletin Service will bring them to you Free of Cost.

Dr. William S. Myers, Director
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25 Madison Avenue New York

WORLD EVENTS IN PICTURES



A silent prayer of one fighter for another; Georges Clemenceau at grave of Theodore Roosevelt.



This small Vaught plane will soon land on the deck of the Langley and by means of a hook hanging from the landing gears can stop within fifty feet of the first point of contact.



Senator George, of Georgia, stepped aside that Mrs. Felton might be "senator for a day."



This year the Harding Girls' Club, of Morris & Co., of Chicago, sent their forty-one-pound turkey to the White House by means of a truck, which made a non-stop trip from Chicago to Washington.



Chief Officer H. Bond, Com. of S. S. Laconia, explains its course to two interested listeners. This vessel is the largest passenger boat to circumnavigate the globe.



Shop now, pack now and mail now. But above all wrap your parcels carefully, in order that such trouble as this may be avoided.



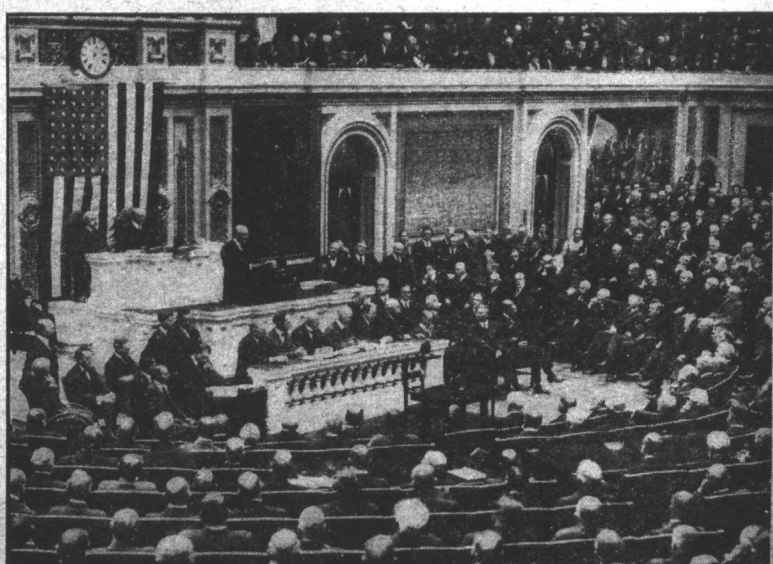
Miss Anna A. Gordon, who is president of both the National and World's W. C. T. U.'s.



Frank E. Beatty paid \$50,000 for this strawberry plant, which was as large as a bushel basket before the foliage was cut off.



An electric flash, the result of tramcars running wild and hitting a high-tension wire, ignited dust in the air and caused explosion in a mine at Dolomite, Ala., killing more than 100 men.



President Harding personally addressed the sixty-seventh congress, convened in extra session, and delivered an eloquent plea for a generous subsidy for American shipping.

THE CROSS-CUT —By Courtney Ryley Cooper

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As carefully as possible, he wrapped Harry in the blankets, seeking to protect him in every way against the cold. With a great effort, he lifted him, the sick man's frame huddled in his arms like a gigantic baby, and started out of the eerie, darkened house.

The stairs—the landing—the hall! Then a query from below:

"Is that you, Roddy?"

The breath pulled sharp into Fairchild's lungs. He answered in the best imitation he could give of the voice of Squint Rodaine:

"Yes. Go on with your digging, Hon-ey. I'll be there soon."

"And you'll kiss me?"

"Yes. Just like I kissed you the night our boy was born."

It was sufficient. The chanting began again, accompanied by the swish of the spade as it sank into the earth and the cludding roll of the clods as they were thrown to one side. Fairchild gained the door. A moment more and he staggered with his burden into the protecting darkness of the night.

The snow crept about his ankles, seeming to freeze them at every touch, but Fairchild did not desist. His original purpose must be carried out if Rodaine were not to know—the appearance that Harry had aroused himself sufficiently to wrap the blankets about him and wander off by himself. And this could be accomplished only by the pain and cold and torture of a barefoot trip.

Some way, by shifting the big frame of his unconscious partner now and then, Fairchild made the trip to the main road and veered toward the pump-house of the Diamond J. mine, running as it often did without attendance while the engineer made a trip with the electric motor into the hill. Cautiously he peered through the windows. No one was there. Beyond lay warmth and comfort—and a telephone. Fairchild went within and placed Harry on the floor. Then he reached for the 'phone and called the hospital.

"Hello!" he announced in a husky, disguised voice. "This is Jeb Gresham of Georgeville. I've just found a man lying by the side of the Diamond J. pump-house, unconscious, with a big cut in his head. I've brought him inside. You'll find him there; I've got to go on. Looks like he's liable to die unless you can send the ambulance for him."

"We'll make it a rush trip," came the answer, and Fairchild hung up the 'phone, to rub his half-frozen, aching feet a moment, then to reclathe them in the socks and shoes, watching the entrance of the Diamond J. tunnel as

he did so. A long minute then he left the pump-house, made a few tracks in the snow around the entrance, and walked swiftly down the road. Fifteen minutes later, from a hiding place at the side of the Clear Creek bridge, he saw the lights of the ambulance as it swerved to the pump-house. Out came the stretcher. The attendants went in search of the injured man. When they came out again, they bore the form of Harry Harkins, and the heart of Fairchild began to beat once more with something resembling regularity. His partner—at least such was his hope and his prayer—was on the way to aid and to recovery, while Squint Rodaine would know nothing other than that he had wandered away! Grateful, lighter in heart than he had been for days,

"Good. I don't know whether he's going to pull through or not. Of course, I can't say—but it looks to me from his breathing and his heart action that he's not suffering as much from this wound as he is from some sort of poisoning."

"We've given him apomorphine and it should begin to take effect soon. We're using the batteries too. You say that you're going to be here. That's a help. They're shy a nurse on this floor tonight, and I'm having a pretty busy time of it. I'm very much afraid old Judge Richmond's going to lay down his cross before morning."

"He's dying?" Fairchild said it with a clutching sensation at his throat. The physician nodded.

"There's hardly a chance for him."

in the night, must say good-bye forever to the father she loved. It had been on Fairchild's tongue to send her some sort of message by the physician, some word that would show her he was thinking of her and hoping for her. But he had reconsidered. Among those in the house of death might be Maurice Rodaine, and Fairchild did not care again to be the cause of such a scene as had happened on the night of the Old Times dance.

Judge Richmond was dying. What would that mean? What effect would it have upon the engagement of Anita and the man Fairchild hoped that she detested? What—then he turned at the entrance of the interne with the batteries.

"If you're going to be here all night," said the white-coated individual, "it'll help me out a lot if you'll use these batteries for me. Put them on at their full force and apply them to his cheeks, his hands, his wrists and the soles of his feet alternately. From the way he acts, there's some sort of morphinic poisoning. We can't tell what it is—except that it acts like a narcotic. And about the only way we can pull him out is with these applications."

The interne turned over the batteries and went on about his work, while Fairchild, hoping within his heart that he had not placed an impediment in the way of Harry's recovery by not telling what he knew of Crazy Laura and her concoctions, began his task. Yet he was relieved by the knowledge that such information could aid but little. Nothing but a chemical analysis could show the contents of the strange brews which the insane woman made from her graveyard herbage, and long before that could come, Harry might be dead. And so he pressed the batteries against the unconscious man's cheeks, holding them there tightly, that the full shock of the electricity might permeate the skin and arouse the sluggish blood once more to action. Then to the hands, the wrists, the feet and back again, it was the beginning of a routine that was to last for hours.

Midnight came and early morning. With dawn, the figure on the bed stirred slightly, and groaned. Fairchild looked up, to see the doctor just entering.

"I think he's regaining consciousness."

"Good." The physician brought forth his hypodermic. "That means a bit of rest for me. A little shot in the arm, and he ought to be out of danger in a few hours."

(Continued next week).

PUNKIN PIE

By Al. Rice

No luxury from bush or tree,
And few from anywhere,
Will hit the spot upon the dot
And do it fair and square.
No afterthought, that's dearly bought,
Of stomach's pains—o, My
But feeling's nice, for every slice
Of good, old punkin pie.

No nightmare fright for half the night;
No rolling to and fro.
You feel the kiss of sylvan bliss
Like vespers sweet and low,
You feel the call and gently fall
Asleep, so peacefully,
With glass of milk—as fine as silk—
And piece of punkin pie.
Beware of mince, prune and quince;

For demons lurk within,
And often such are hiding much
Beneath the fairest skin.
No crust to hide the goods inside,
No secrets dark and sly:
So base your hope within the scope
Of good, old punkin pie.

In Ireland a stubborn band—
Be Gorra! and BeDad!
Refuse to eat the bread and meat
And starve to death, me lad.
O, fiddlesticks! The Irish micks,
Who starve themselves and die,
Would break their fast if they were
passed
A piece of punkin pie.

Fairchild plodded along the road in the tracks of the ambulance, as it headed back for town.

The news already had spread by the time he reached there; news travels fast in a small mining camp. Fairchild went to the hospital, and to the side of the cot where Harry had been taken, to find the doctor there before him, already bandaging the wound on Harry's head and looking with concern now and then at the pupils of the unconscious man's eyes.

"Are you going to stay here with him?" the physician asked, after he had finished the dressing of the laceration.

"Yes," Fairchild said, in spite of aching fatigue and heavy eyes. The doctor nodded.

"You're going there?"

"Yes."

"Will you please give—"

The physician waited. Finally Fairchild shook his head.

"Never mind," he finished. "I thought I would ask you something—but it would be too much of a favor. Thank you just the same. Is there anything I can do here?"

"Nothing except to keep watch on his general condition. If he seems to be getting worse, call the interne. I've left instructions with him."

"Very good."

The physician went on, and Fairchild took his place beside the bed of the unconscious Harry, his mind divided between concern for his faithful partner and the girl who, some time

AL ACRES—Slim Has a Hot Water Spree; He is Not Drunk, He is Only Full.

—By Frank R. Leet.



Friend and Enemy

Our Weekly Sermon—By N. A. McCune

THE Master had splendid friends. That means that He must have been worthy of such friends. He must have drawn them to him, and He must have been friendly himself. And, of course, we know that he was friendly. There were those who would have gone to the death for Him, and He loved them unto the end. A church historian points out some famous friendships. There were Jesus and the two sisters, Mary and Martha, and their brother, Lazarus. There were Paul and Luke. This was a friendship that was broken only by death. So great was



Paul's influence over Luke that his gospel is referred to by some people as "The Gospel of Paul." There were Peter and Mark. Peter must have been much older than Mark. From a father in the early church we learn that Peter related to Mark the events of our Lord's life, and Mark wrote them down, so that his gospel might almost be called, "The Gospel of Peter." Then, there were Luther and Melancthon; Luther the older, Melancthon the younger; Luther the fiery reformer, Melancthon the mystic and scholar. To the same period belong Calvin and Beza. Later, came Cranmer, Latimer and Ridley, all bishops in the English church, and all suffering the martyr's death. Still later came Wesley and Whitefield. This friendship was sadly marred by doctrinal differences for a time. But later the two men forgave and forgot, as Christian men should. In American life, there is the instance of Lincoln's love for his old friend, Joshua F. Speed, and Marcus Hanna's devotion to William McKinley.

The home at Bethany seems to have been a spot where Jesus loved to go. He never tired of it. The two sisters and their brother were company enough for the Lord of Life. The two sisters were poles apart, temperamentally. Mary was the quiet, devotional type, Martha the bustling, energetic, "efficient" type. Mary would be lost in the rush today. Martha would be a splendid suffragette, or the head of a woman's college, with a million dollar endowment to raise. Frequently these two types do not agree well. The energetic think that the quiet and meditative do not "do things." The church very largely today is of the Martha type. It is all agog to "do things." This is a wholesome attitude to have, provided it is not carried to excess. Great souls cannot be grown by hot-house methods. Great men are those who have let time have its perfect work on their inner natures. A boy once went to James A. Garfield, who was then president of Hiram College, and asked if there were not some shorter course he might take, as he did not want to study for four long years. Garfield replied, "My boy it takes a hundred years to grow an oak, but you can raise a squash in three months."

THE tendency to depart from the Martha type to the Mary type is becoming more marked. Meetings are being held for the cultivation of the inner life. Every week I receive a leaflet from a church in an eastern city, where a class is held, called "The Class in Personal Religion." Part of the program is five minutes of absolute silence, at the close of the class session, for the purpose, not of praying to God, but to listen to God. The class uses a class prayer, in its opening,

which runs as follows: "Almighty God, Who art the only source of health and healing, the spirit of calm and the central peace of the universe; grant to us, Thy children, such a consciousness of Thy indwelling presence as may give us utter confidence in Thee. In all pain and weariness and anxiety may we throw ourselves upon Thy besetting care, that knowing ourselves fenced about by Thy loving omnipotence, we may permit Thee to give us health and strength and peace; through Jesus Christ our Lord."

Martha was fussy. Fussy people are not the most desirable kind. Fussy religion does not achieve as much as the religion of calmness and repose. It is told of a well-known English bishop that he could not endure fussing officials. When a clergyman made himself too officious at a confirmation service, he was sure to be beckoned and reprimanded in two words, "'Don't forget!' A man and woman were traveling together a few years ago, and the woman was forever getting up and sitting down, smoothing her dress or fixing her hat. Said her husband, "Why don't you get fixed, Mary, and be quiet?" "I'm just getting in a position to enjoy this scenery," said she. "Well," replied her patient companion, "By the time you get into a position to enjoy the scenery, the scenery will all be past."

When we turn to the enemies who are mentioned in this lesson, it is a more spirited scene. "Woe unto you!" are the words that are catapulted at us. Hypocrisy is a dreadful thing. The pathetic aspect of it is, that we do not know that we are hypocritical, in the majority of cases. Much is said in some communities about hypocrites in the church. That is usually an exaggerated charge. I have known very few people who were hypocrites, and realized it. One often meets weak people in the church, who fall below the standards of right living, and one meets sinful people on church rolls. But usually these do not realize that they are pretending one thing, and living another. In the case of the Pharisees their hypocrisy was so glaring that a blind man could see it. They who were the leaders of the people were doing nothing themselves to make conditions better.

IN every age there are many shams. At the Columbia Exposition, a row of expensively bound books bore the warning, "Hands Off!" Some one, however, took down one of the books and found it a painted block of wood. A young man who wanted to appear learned, put a row of letter files on the top row in his room and labeled it, "Xenophon's Works." The historian, Macaulay, has often been charged with pretending, because he wrote a letter to his constituents dated at Windsor Castle, where the king lived. As a matter of fact, Macaulay was at Windsor Castle just half an hour, and the letter was written before he went there, but he dated it Windsor, so as to make an impression on his constituents. We are told that a famous Italian had a number of wigs, of different lengths, which were worn in rotation, so as to appear as though he had enjoyed a hair-cut.

SUNDAY SCHOOL LESSON FOR DECEMBER 17.

SUBJECT:—Jesus Among Friends and Foes.

GOLDEN TEXT:—"Ye are my friends, if ye do the things which I command you." John 15:14.

Says Sam: The amen's ain't so hearty nowadays when the preacher gives thanks for abundant crops.

Lily White

"The Flour the Best Cooks Use"

A GOOD RECIPE FOR NUT BREAD

1 egg, 1 cup sugar, 1 cup sweet milk, 1 teaspoon salt, 1 cup nuts, 4 1/2 cups Lily White Flour, 4 level teaspoons baking powder. Mix well and let stand twenty minutes in two pans nine inches long, four and three-quarters inches wide, three inches deep. This amount just fills these two pans. Grease pans and over top of loaves with melted butter; bake in moderate oven until done. (Use one-half cup of flour to knead in soft dough.)

For Christmas Baking

Lily White Flour can be recommended for Christmas baking because with it the home baker is so positive of producing satisfactory results. And there must be no Christmas failures. But Lily White isn't merely a holiday flour. On the contrary, it is the best flour for general baking you can buy. It is really "the flour the best cooks use" and they endorse Lily White because they are the best cooks—and know.

Why You Should Use Lily White
REASON No. 17

Makes Children Strong and Healthy.

One of the reasons for Lily White's popularity is the flavor of the bread it produces. This flavor is in the wheat from which Lily White is milled. It is the finest grown in America. Only the choicest portion of the wheat berry enters the flour. It is milled to a uniform granulation, is clean and wholesome. Do your Christmas baking with the flour the best cooks use.

Our Guarantee

We Guarantee you will like Lily White Flour, "the flour the best cooks use," better than any flour you ever used for every requirement of home baking.

If for any reason whatsoever you do not, your dealer will refund the purchase price. He's so instructed.

VALLEY CITY MILLING COMPANY
GRAND RAPIDS, MICHIGAN
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FOR OVER 50 YEARS—

the HIGH ROCK label has stood for the Best in Underwear—selected materials, skilled workmanship, full cut garments.

Men who prefer a soft, downy cotton next the skin, who insist on good serviceable wear and warmth, find it most economical and satisfactory to buy—

HIGH ROCK FLEECE LINED UNDERWEAR

Write for sample of the fabric and booklet describing the garments before you buy, if time permits. If not, you can depend on the HIGH ROCK label for SATISFACTION in every particular.

HIGH ROCK KNITTING CO.
Philmont, N. Y.

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STRETCH

Suspenders and Garters
Make Ideal Xmas Gifts
Sold and guaranteed by leading dealers. Millions wear them. No rubber. Lots of comfort and easy stretch from Phosphor Bronze Springs. Year's guarantee. Suspenders, 75c; Garters, 60c; Hose Supporters, 25c.

ACCEPT NO SUBSTITUTES!
Nu-Way name on buckles. Send direct, giving dealer's name if he hasn't them.

NU-WAY STRETCH SUSPENDER CO., Mfrs.
Dept. H1112 Adrian, Mich.

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Be Comfortable
—wear the Brooks Appliance, the modern scientific invention which gives rupture sufferers immediate relief. It has no obnoxious springs or pads. Automatic Air Cushions bind and draw together the broken parts. No salves or plasters. Durable. Cheap. Sent on trial to prove its worth. Never on sale in stores as every appliance is made to order, the proper size and shape of Air Cushion depending on the nature of each case.

MR. C. E. BROOKS Beware of imitations. Look for trademark bearing portrait and signature of C. E. Brooks which appears on every appliance. None other genuine.

BROOKS APPLIANCE CO. 392 State St., Marshall, Mich.

MAKE YOUR OWN SLED

Get this Steel Sled Crook for \$2.25 each and make our own sled with straight plank. Satisfaction guaranteed or your money refunded if transportation is paid.

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AUTOMATIC PISTOLS

AT CUT PRICES

NONE BETTER

25 cal. \$7.80
7 shot C.O.D.
32 cal. 8 shot \$9.60
32 cal. 10 shot, extra magazine, making 20 quick shots.....\$15

SEND NO MONEY pay on arrival, our price plus postage. Satisfaction guaranteed, or money promptly and cheerfully refunded.

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Fancy Large Dressed Herring 4c per lb. Remit with order. Box Charges Extra, 35c.

CONSUMERS' FISH CO., Green Bay, Wis.

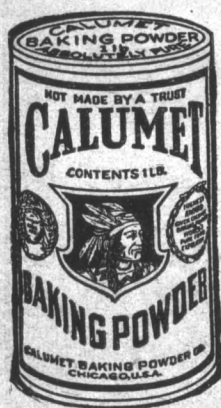
White-of-Egg in Calumet a Vital Element Most Baking Powders Lack

Don't use a leavener that does not contain white-of-egg. When you do you take chances—you run the risk of spoiling your bakings.

CALUMET

The Economy BAKING POWDER

contains a small amount of white-of-egg. This makes it possible for representatives of the company to test it frequently for leavening strength—right on the dealer's counter. Nothing but absolutely fresh stock is permitted to remain on the dealers' shelves. It must always be up to the high Calumet standard.



BEST BY TEST

Remember the white-of-egg in Calumet protects the success of your bakings. It is the economical positive bake-day aid and its sale is 2½ times as much as that of any other brand.

A pound can of Calumet contains full 16 ounces. Some baking powders come in 12 ounce instead of 16 ounce cans. Be sure you get a pound when you want it.



THE WORLD'S GREATEST BAKING POWDER

Color Your Butter

"Dandelion Butter Color" Gives That Golden June Shade and Costs Really Nothing. Read!

Before churning add one-half teaspoonful to each gallon of cream and out of your churn comes butter of Golden June shade to bring you top prices. "Dandelion Butter Color" costs nothing because each ounce used adds ounce of weight to butter. Large bottles cost only 35 cents at drug or grocery stores. Purely vegetable, harmless, meets all State and National food laws. Used for 50 years by all large creameries. Doesn't color buttermilk. Absolutely tasteless.

Wells & Richardson Co., Burlington, Vt.

10 Cents

worth of common kerosene or coal oil will keep this Sunray lamp in operation for 30 hours. Produces 300 candle power of the purest, whitest and best light known to science. Nothing to wear; simple; safe; 15 Days' Trial.

FREE Lantern

As a special introductory offer, we will give you a 300 Candle Power Sunray Lantern FREE with the first purchase of a Sunray Lamp. Lights up the yard or barn like a search light. Write today for full information and agency proposition.

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Dept. 3109 Chicago, Ill.

Why Burn Coal

When you can get twice the heat at half the cost, by installing, in 5 minutes time, Uni-Hete Oil-Gas Burner in your range or heater. Thousands of homes now ending coal expense! Uni-Hete generates gas from common kerosene—cheapest fuel known. Red hot fire instantly. Cooks, bakes, heats. Sets in fire box of any stove. **FREE TRIAL.** Saves its small cost in 30 days. Lasts for years. Made by factory making heating devices for 33 years.

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High coal cost makes Uni-Hete a big profit maker for agents. Write at once.

Acorn Brass Mfg. Co., 1232 Acorn Bldg., Chicago, Ill.

Yarn

100% Pure Wool

Send for FREE color card of "Homewool" Yarn — also the complete catalog of other pure wool products sold only direct to you at big savings.

Do your own knitting and save ⅓. You can make splendid sweaters, slip-ons, scarfs, tams, baby garments and other knitted things from "Homewool" Yarn.

Big skeins, full weight. Prices you cannot equal for such warm, durable, attractive yarn. Thousands of women demand "Homewool" quality. Knit for yourself and all the family.

Write for your samples TODAY

Home Woolen Mills
204 Main St., Eaton Rapids, Mich.
Founded 1876

"HOMEWOL"

LADIES' FURS

We tan hides and make them into robes, coats, mittens and ladies' furs, at reasonable prices. Send us your hides and furs which you want remodeled and made into latest styles. Robes and Coats at Wholesale prices. Free Samples. Reference: Citizens' State Bank, Milford, Indiana. Write to the

Milford Robe & Tanning Co.
183 Elm St. Milford, Ind.

Woman's Interests

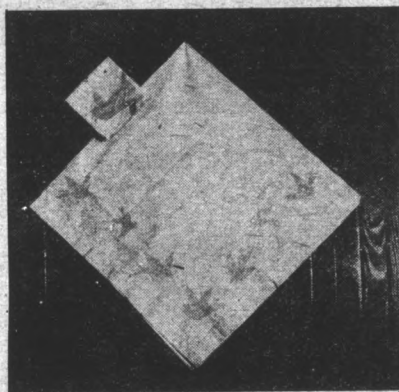
Bluebird Breakfast Set

THE bluebird breakfast set here shown, is not only perfectly adapted for home use, but makes a useful, ornamental, and economical gift.

To make it requires one and seven-eighths yards of a good quality of unbleached muslin, fifty-four inches wide, a half-yard of Alice blue linen or chambray at twenty-five cents, a ball of blue crocheting cotton and a ball of white cotton or linen, at ten cents. This material makes the breakfast cloth fifty-four inches square, and four napkins thirteen inches square.

Cut the cloth first, and then cut the four square napkins from the remaining strip. The napkins have a tiny rolled hem which is not hemmed but is kept in place by the row of single

the cloth, are the same. A paper pattern is cut for each bird, and the blue material folded four or more times, the pattern securely pinned on and the birds cut out with sharp scissors. The edges are left raw in applying them on, as the stitches cover the raw edges. The birds are basted to the material. Then the white cotton is used to sew them on. The stitch is the French knot stitch. Working away from you, place the needle down, close to the edge of the bird, and bring it up through both bird and cloth, making the stitch about one-eighth of an inch long, and the stitches about one-eighth of an inch apart. When the needle has been brought up through the work, take up the loose thread and wind it twice around the needle. Pull the needle through, drawing the knot tight, and then go on to the next stitch. This method of applying gives a raised effect which is handsomer and more durable than the simple embroidery applique stitch. The crocheted edge of blue, and the single bluebird applied on with white, finishes the napkin.



A Bluebird Breakfast Set that will Please the Bride.

Turn the tablecloth hem on the right side, about two inches. Miter the corners of the hem. Stitch it with blue, using the French knot applique stitch as described, and stitching down the mitered corners. The cloth has a border of birds all around it, twenty-eight birds being used, four of the largest size, and eight of each of the others. Arrange the birds on one corner and get the proper effect before basting them on. The single large bird occupies the corner. The others can be arranged as fancy dictates. The white stitchings on the birds follow the general outline of feathers and wings, but the worker can use her own ideas in placing them or can leave them out altogether. If fast colors in cotton and applique material are bought, the set will last a very long time.—Helen Combes.

Xmas Candies You Will Like

AT the holiday season our minds instinctively think sweet things, candies, cookies, cakes, pies and puddings. They all seem to have their place in the spirit of the season. On the opposite page there are many recipes for the dessert course for the Christmas dinner, but the day would not be complete without candy or popcorn for the kiddies or even the grown-up folks. Some tasty recipes for these dainties follow here that will be found both economical and easily prepared.

Divinity Fudge.

Three cups sugar; half cup boiling water; half cup of corn syrup; three stiffly beaten egg whites; three-quarters of a cup of chopped raisins; half cup of chopped walnut meats; one teaspoon vanilla.

Boil sugar, water and syrup together without stirring. Cook until brittle when tested in cold water. Remove from fire and when bubbling has ceased pour slowly on egg whites. Beat vigorously until stiff and creamy. Add raisins, nuts and vanilla, and pour into greased pan. When it begins to harden, mark into squares.

Raisin Chocolates.

One cup of raisins; one cup of dates, pitted; one teaspoonful of grated or-

ange rind; quarter teaspoonful cinnamon; half pound of dipping chocolate; half teaspoon vanilla.

Put raisins and dates through the food chopper and add orange rind, cinnamon and vanilla. Mix well and form into balls. Melt chocolate in double boiler, dip the balls into it one at a time, using a chocolate dipper or a hat pin. Place on wax paper to cool and harden.

Penuche.

Three cups brown sugar; one cup of milk; half cup butter; half cup walnut meats; half cup raisins; one teaspoon vanilla.

Cook sugar, milk and butter together until it forms a soft ball when tested in cold water. Add nuts, raisins and vanilla and beat until creamy. Put into buttered tins and when nearly cold cut in squares.

Maplenut popcorn is made by cooking together a cupful of maple syrup, half a cup of brown sugar, and two tablespoonfuls of butter until the candy seems brittle when tested in cold water. Mix the popcorn with a cupful of chopped English walnut meats, pecans and peanuts and pour the candy over the corn and nuts, stirring constantly.

Christmas Deserts

By the Prize Winners

JUDGING from the letters received, the Christmas dinner is to receive its due attention, along with that which was accorded the Thanksgiving feast. The dessert course, the last, but by no means least, was foremost in our minds this week. Plum pudding appeared to hold high favor, and it became necessary to draw one from this group of letters which were all practically alike. All were judged by their tested and economical value.

First Prize.

Mrs. J., Trufant, Michigan.

2 cups beef suet ground fine
2 cups raisins
1 cup currants
2 cups sugar
1 teaspoon cloves
2 teaspoons cinnamon
A little candied citron
2 cups buttermilk
Heaping teaspoon soda.

Flour a large strong cloth and mix enough flour into ingredients to make a solid loaf. Tie cloth with plenty of room that the batter may swell. Put a small rack in the bottom of a large kettle and fill half full of boiling water. Boil for eight hours, keeping well covered. This is a recipe that my grandmother gave me and I have always found it very good. Any preferred sauce may be served with this.

Second Prize.

Mrs. F. M., Goodrich, Mich.
English Plum Pudding.

$\frac{1}{2}$ cup suet.
 $\frac{1}{2}$ pound figs, chopped fine
 $2\frac{1}{2}$ cups stale bread crumbs
 $\frac{3}{4}$ cup milk
1 teaspoon salt
1 cup brown sugar
 $\frac{3}{4}$ teaspoon grated nutmeg
 $\frac{1}{2}$ cup English walnut meats
 $\frac{1}{2}$ cup raisins
2 tablespoons flour, 4 eggs
2 teaspoons baking powder.

Chop suet and work with hand until creamy. Add figs. Soak breadcrumbs in milk and add well-beaten eggs, sugar, salt and spices. Combine mixtures and add nut meats and raisins dredged in flour. Sprinkle over baking powder and beat thoroughly. Turn into buttered mold and steam three hours.

Sauce.

1 cup powdered sugar, 2 eggs
3 tablespoons lemon juice.

Beat yolks of eggs until thick. Add one-half the sugar gradually. Beat the whites of eggs until stiff and gradually add remaining sugar and lemon juice.

Third Prize.

Mrs. F. B., North Branch, Mich.
Marshmallow Cream.

3 tablespoons gelatine
 $\frac{1}{2}$ cup water
2 tablespoons lemon juice
 $\frac{1}{2}$ cup sugar
2 egg whites
Nut meats.

Soak gelatine in one tablespoon cold water. Pour boiling water on and when it begins to congeal, beat well, and add sugar and lemon juice. Beat the egg-whites and combine before it gets too stiff. Divide into three equal parts. To the first add almond extract and pink coloring and put in bottom of mold. Sprinkle with nut meats. To the second part add lemon extract and tint lavender. Put in mold on top of first part and sprinkle with nut meats. Then add third part, which is white flavored with vanilla. These colorings and flavors may be varied to suit one's family. This may be sliced and served as brick ice cream.

Dutchess Apple Pie.

Line deep pie plate with rich pie crust. Sprinkle generous half-cup of sugar mixed with one tablespoon of flour on the bottom. Fill dish with

apples pared and quartered and pour six or seven tablespoons of sweet cream over the apples, adding another half-cup of sugar. Sprinkle with cinnamon and bake without a blanket. Serve with a tablespoonful of whipped cream on each piece and a little mound of grated cheese on the plate beside the pie.

Fourth Prize.

Mrs. G. C., Pontiac, Mich.
Date Pudding.

1 package dates, washed and pitted
1 cup brown sugar
 $\frac{1}{3}$ cup minute tapioca
1 cup milk, a pinch of salt.
Mix and cook in a double boiler for three-quarters of an hour. Serve cold with whipped cream.

Prune Jello.

Wash and soak prunes over night. Remove pits and fill with nut meats. Heat to boiling point the water they are soaked in, making one and one-

Labor-Saving Hints

WITH the innumerable demands that are made upon every wakeful minute of the housewife's time, it becomes necessary for her to devise different means of doing her work to save time and labor. Perhaps you have worked out something that has not occurred to some other housewife.

So send us a letter this week telling how you save time and labor in your home. For the best one we will give a six-inch flashlight, so useful in every home. The second prize will be a copy of Crochecraft, containing 414 designs with directions for making each. The next three prizes will be fancy six-inch scissors.

Address your letters to Household Editor, Michigan Farmer, Detroit, Michigan, before December 22.

third pints, and sweeten to taste. Add pinch of salt and stir in one package of lemon jello. When it begins to harden add prunes. Serve cold with whipped cream.

Fifth Prize.

Mrs. C. A., Boyne City, Mich.
Snow Pudding.

Soak one-half box of gelatine in two tablespoons of cold water for fifteen minutes. Pour one pint of boiling water on it and add the juice of one lemon, one and one-half cups of sugar. When nearly cold stir in the whites of four eggs, well beaten. Serve with the following boiled custard:

Heat one pint of milk to the boiling point and add yolks of three well-beaten eggs, quarter cup of sugar, and cook slowly until it thickens.

HOUSEHOLD SERVICE.

Please print the recipe for stuffed celery.—Mrs. J. D. M.

There are as many varied ways for stuffing celery as there are for stuffing chicken, each suiting the individual taste. Both of these are good.

One cup of cottage cheese, four diced olives, one tablespoonful of chopped parsley or cress, two tablespoons of salad dressing. When stalks are filled, sprinkle with paprika. Another very good recipe is: One package of pimento cheese, four chopped olives and enough salad dressing to make a thick paste. The stalks are then filled with this and sprinkled with paprika and garnished with parsley.



She Knows

how to use left-over bread and make the farm hands like it

LOTS of bread was used on her table, but lots of it also was left over. She used to throw away a lot.

But now she knows what to do with it, for one day she found a recipe which told her how to use raisins in bread pudding.

It made "a new dish" of it. Men who didn't like plain "bread pudding" were delighted with the raisins and became enthusiasts.

Raisin Bread Pudding

Three-fourths cup Sun-Maid Seeded Raisins, 2 eggs, $\frac{1}{2}$ teaspoon salt, butter size of an egg, $\frac{1}{2}$ cup sugar, cinnamon to taste, $\frac{1}{2}$ large loaf of stale bread, 2 bananas or apples.

Soak the stale bread over night in water. When time to make the pudding press as much water as possible from the bread so that the bread is about the same consistency as dough, then take a fork and get all lumps out. Do not leave the crust if it cannot be mashed to the same consistency as the bread. Add well beaten eggs, salt and stir. Add raisins mixed with the butter. Put into dish in layers, covering each layer with sliced banana, sugar and cinnamon. Bake in slow oven until brown. Serve with whipped cream.

All measurements for this recipe are level.



Blue package (seeded) best for pie and bread.

Now she never wastes a slice of bread. She even has to bake bread especially to make this pudding.

Try the recipe and see how good it is—with

Sun-Maid Raisins

Hear your men folks call for more, and how they compliment you. Try it now.

Be sure you get Sun-Maids—the finest raisins grown. Your retailer should sell you Sun-Maid Seeded Raisins (in 15 oz. blue packages), the best bread pudding raisins, for not more than 20c.

Insist on Sun-Maids, the kind you know are good. Mail coupon for free book of tested Sun-Maid recipes.

SUN-MAID RAISIN GROWERS
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CUT THIS OUT AND SEND IT

Sun-Maid Raisin Growers

Dept. B-2512, Fresno, Calif.

Please send me copy of your free book, "Recipes with Raisins."

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These time-tested long lasting batteries deliver a constant dependable flow of current. They make your lights burn brilliantly and steadily—no flickering—and provide abundant reserve power for heavy duty. As standard equipment on many of the best Farm Light Plants, thousands of them are now giving uniform satisfaction everywhere.

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Don't buy an unproven battery. Twenty years of successfully building batteries for every kind of use are behind every Universal. 521 costly experiments throughout these years, have developed these truly wonderful all-duty powerful batteries. Universal sealed glass jars are oversize, use low gravity acid, making plates last longer. Extra-size sediment space—no cleaning necessary. Universal Batteries come to you fully charged and sealed—ready to connect right up to your plant—no assembling.

We also make Radio and Automobile Batteries and Repair Parts For Any Make Battery.

Battery Guide Sent FREE

No matter what kind of Plant you have, this interesting book will show you just how to renew the system with Universal Batteries. The right size for every Farm Power and Light System made. It also lists Parts for all makes of batteries. "Care of Batteries" is another valuable treatise; will also be sent free with the new Universal Battery Guide. When you write, mention brand-name and age of your present batteries so that we can give you the correct allowance figure. Write today. (133)

UNIVERSAL BATTERY CO., 3416 So. La Salle St., Chicago, Ill.

Don't neglect a Cold

Dangerous sickness often starts with a cold. Ward off your colds with Musterole before pneumonia starts.

Musterole is a clean, white ointment made with oil of mustard. It has all the healing properties of the old-fashioned mustard plaster but none of the unpleasant features.

Musterole is not messy to apply and without the blister.

At the first sneeze or sniffle take down the little white jar of Musterole from the bathroom shelf and rub the ointment gently over the congested spot.

With a tingling warmth it penetrates the skin and goes right down to the seat of trouble.

Rheumatism, tonsillitis, lumbago, coughs and colds are all symptoms that call for Musterole.

Order Musterole today from your druggist. 25c and 65c in jars and tubes; hospital size, \$3.

The Musterole Co., Cleveland, Ohio
BETTER THAN A MUSTARD PLASTER



For CUTS And WOUNDS

Does **MAN OR BEAST.** Not Blister

CORONA WOOL FAT COMPOUND

8 oz. Tin, 50c
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Sore Shoulders
Barb Wire Cuts
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HILLSDALE ROBE & TANNING CO., [Hillsdale, Mich.]

Our Boys' and Girls' Page

Found In Our Letter Box

Some Letters from Pals for the Correspondence Corner

Dear Uncle Frank:

May I join with the rest and be one of your pals? I hope this shall not have the fate of many of the rest, and see the paper box before it is printed.

I am a farmer's girl, fourteen years old, and go to the Deford High School, which is a mile and one-half from our farm.

We are milking twenty Jersey cows at present. Will be milking twenty-six this winter. I milk six and go to school, besides get breakfast and fix dinners for my four little sisters and one brother.

I staid up last night and baked bread because my mother is taking care of a sick woman.

My sister and I have some White Pekin ducks. I have a two-year-old heifer which I bought from my dad when it was still small.

Well, I'll let someone else take the room. As ever, your niece, Gladys Clark, Deford, Mich.

You are quite a busybody, Gladys, and I bet you enjoy it. If one can make play out of work, he is getting enjoyment out of doing something worth while.

Dear Uncle Frank:

I am writing for my first time to you. I think I shall try to write again some time.

We have lots of chores to do. We have twelve head of cattle and thirty-eight head of hogs. I help take care of eight head of horses, but I think every boy and girl should have chores



Alice Skelton, Auburn, Mich., Has a Tricky Pony that Enjoys Riding in a Ford as Much as She Does.

to do as it teaches us to work and be of some use.

I have eight brothers and one sister. There are six of us boys that go to school.

As it is most school time I will say good bye. From your nephew, Martin Ball, Dewitt, Mich., R. 3.

You said something when you mentioned chores. The sooner we learn to be of service, the quicker will we get on in life.

Dear Uncle Frank:

Well, here is another nephew that is going to enter your "Happy Circle." Don't you think that is a good name?

About pets I can't say much. I had a kitten but it drowned and so I have no kitten any more, I am sorry to say. But I have a pet that is very tame and gentle. I bet you can't guess what it is. I will tell what it is, because I am afraid it will arouse your curiosity. Then, too, I believe in treating my uncle half ways decent. It is a bicycle. That's the best pet I ever had. It will go where I want it to and when I want it to. Some pet, eh!

You probably think that I don't go to school, but I do. I am in the junior class of the Sunfield High School.

Before I started this letter I studied my modern history. I was going to write this letter first, but just then I happened to think of this motto, "Always work before play." I think that is a good motto to follow, although I don't always follow it.

I guess this letter is getting quite long, so I will have to retire. From a new nephew, Ivan J. Frantz, Sunfield, Mich.

Judging from letters I get, "Merry Circle" seems to be more popular than

"Happy Circle." Your pet is fine, but it lacks life and therefore appreciation. You are wise in following that motto.

Dear Uncle Frank:

Once more I am going to try my luck on the puzzle contest, hoping, of course, to win.

Tonight is the worst kind of weather imaginable, there is a very strong wind and it is raining and snowing at intervals.

Mother went up north visiting, a week ago today, and so father and I have been batching it. It's getting rather lonesome and we'll be glad when mother gets back.

I intend to have a fish shanty on Pine Lake this winter, if it ever gets finished. There are lots of fish in the lake and I am going to try and get some. If I get anything worth talking about you'll hear a commotion up here later on.

Well, I guess I will close now or this letter will meet the same fate as its ancestors. From your nephew, Riley Stewart.

I am going to listen for that commotion. As soon as I hear a noise like a fish, I'll know something is doing.

Dear Uncle Frank:

I hope you won't be dismayed when you see another letter from me, but I simply cannot stay silent.

I think we have such a nice, cozy little corner, don't you? But, say! Why not have a little more pep? Let's start some discussions and give our views on something deeper than plain pigs and horses. (Not that I don't like animals, for I do love them.)

How many of you are going to our thriving agricultural college? I am. I believe a lot of us could go if we had ambition enough. Our animals could help us raise money, and the banks would be glad to keep it safe for us.

Of course, it's no easy matter, but what can you get for nothing in this beautiful world? This is no place for loafers, but for those who wish to help others and themselves. "God helps those who help themselves." Let us use this as a motto. Your friend, Georgia Brown, Hastings, Mich., R. 3.

I am glad you came again, Georgia. Your suggestions are good ones and I think, too, that we could talk about other things as well as pigs, etc. I just want to say, "There's something coming."

Dear Uncle Frank:

Be careful or you will freeze your toes off this morning. If it is as cold in Detroit as it is here. It is snowing hard this morning. It is awful cold, so my letter may not be very long or interesting. So you will have to excuse it this time.

To tell the truth about it, I was very disappointed when I found your letter and no prize, but your letter was very nice. But I won't be a pig, as I know you play fair by all.

I want to thank you for your letter, mother thought it was very nice.

I suppose we will be skating before long, I hope so. I know my letters are not as nice as your other pals, but I will do my best to make it interesting. Next week I will write again and tell you what we had for Thanksgiving dinner. We don't have school Thursday or Friday.

My hands will hardly go, but I will not fail to answer. Your Pal, Sara Beach, Grand Blanc, Mich.

A nice little letter, Sara. I am sorry about your lack of success in winning prizes, but I can't help it. Just keep coming and do a little better each time; that will bring results.

CHRISTMAS.

BY L. M. THORNTON.

Oh, what is a wreath of holly,
Or a spray of mistletoe;
If I have no sweetheart jolly
To kiss when the lights are low.

Oh, some folks may think it shocking
But Christmas can't Christmas be,
If I hang nobody's stocking
And nobody loves just me.



Pain?

TOUGH luck! But it would be lots worse—if you didn't have that bottle of Gombault's Balsam handy. Just a few drops rubbed in gently and the pain eases right up. One more application and the soreness is gone—for good.

WHETHER it's a bruise, a cut, a burn, a sprain, a sore, rheumatism, stiffness, a sore throat, or a chest cold you'll find quick relief in this unequalled liniment. Furthermore it is absolutely safe and a perfect antiseptic. In fact we know you will be more than satisfied.

ONCE you've tried Gombault's Balsam you'll never be without it. You'll give it the place of honor on the family medicine shelf—ready for use. One bottle lasts a long while. Get it today!

Sold by druggists, or sent by parcel post on receipt of price \$1.50 per bottle.

AS A VETERINARY REMEDY Gombault's Caustic Balsam has no equal. It supercedes all cautery and firing; and never leaves a scar or discolors the hair.

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Cleveland, Ohio

GOMBAULT'S BALSAM
The Imported Liniment
HEALING and ANTISEPTIC

LET US TAN YOUR HIDE.

Horse or Cow hide, Calf or others skins with hair or fur on, and make them into coats (for men and women), robes, rugs or gloves when so ordered; or we can make your hides into Oak Tanned Harness or Slaughter Sole or Belt Leather; or your calfskins into Shoe Leather, colors Gun Metal, Mahogany Russet or lighter shade. Calfskins tanned in the lighter shades of shoe leather, also make elegant stand and table covers; great for birthday, wedding and holiday gifts.

LET US FIX YOUR WORN FURS

fashion, repair and reshape them if needed. Furs are very light weight, therefore it would cost but little to send them in to us by Parcel Post, for our estimate of cost, then we will hold them aside awaiting your decision. Any estimate we make calls for our best work. Our illustrated catalog and style book combined gives a lot of useful information. It tells how to take off and care for hides. About our safe dyeing process on cow and horse hides, calf and fur skins. About dressing fine fur skins and making them into neckpieces, muffs and garments. About our sharp reduction in manufacturing prices. About Taxidermy and Head Mounting.

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TANNERS

of CATTLE, HORSE, CALF, COON, FOX, SKUNK, MINK, MUSK, RAT, WOODCHUCK, DOC, CAT and RABBIT SKINS.

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

W. W. Weaver, Reading, Mich.
Custom Tanner. 50 yrs. Experience.



LAKELAND FUR EXCHANGE
SALEM, MICH.

IMAGINATION CONTEST WINNERS.

IMAGINATION certainly ran riot in this contest. The pictures showed that the pals thought Uncle Frank looked like everything from a city dude to an old country bumpkin, from a tramp to a negro, from a wise man to a dunce, from a Mexican villain to an Italian peddler, all of which made the contest one of the most interesting we ever had.

The drawings showed unusual ability with the pen or pencil, and it pleases me greatly to know that some of my pals can draw so well, because about the only thing I can draw is my breath. The prize winners were selected because of the artistic ability shown in the drawings and not because of the good guesses of what Uncle Frank looks like.

We announce the prize winners here but can not present their drawings until next week, as it takes a little time to have cuts made of the drawings. These cuts are necessary to have the drawings reproduced in the paper. From time to time some of the other drawings will also be used in our columns.

The prize winners are as follows:

Pencil Box.

Harry Alfredson, Whitehall, Mich.
Helen M. Haystead, Britton, Mich., R. 1.

Clutch Pencil.

Frances Keran, Britton, Mich.
Arza Austin, 128 Van Nest Street, Dundee, Mich.

Dorothy Rimon, Farmington, Mich.

Maps.

Herman Kenneth Hoffer, Ashley, Mich., R. 3.

Ione Merrill, Battle Creek, Mich., R. 7.

Irene Genter, Scottville, Mich.
Bernard Alfredson, Whitehall, Mich.

Marcus Assennacher, Wyandotte, Mich., R. 1.

READ-AND-WIN.

WE haven't had a Read-and-Win Contest for some time, so I think that some of you have gotten out of the habit of reading the paper. Just to renew your interest and to keep your question-hunting ability in good trim we are making this one of the old Read-and-Winners.

The rules for this contest are the same as for the other Read-and-Win Contests. Hunt in this paper for the answers to the questions and then give the answers as short as possible consistent with good sense. It is not necessary to make your answers in sentences, but it is necessary to give the number of the page upon which you have found the answers.

For the two most neatly and correctly written papers we will give the Michigan Farmer pencil box; to the three next best a nickled pocket pencil, and for the next five best papers Michigan Farmer maps of the New World and Europe. Please send your letters to Uncle Frank, The Michigan Farmer, Detroit, Michigan, before December 22.

Here are the questions:

1. What is the average weight of calves at birth?
2. What is a fair price for sour milk for poultry feeding purposes?
3. How much more did Michigan seed potatoes yield than Ohio?
4. Who paid \$160 for forty acres?
5. What country consumes the largest amount of butter per person?
6. What is the average acreage a man with a tractor can plow per day?
7. Give the two mottoes mentioned in the Letter Box.
8. Name advantages of Michigan-grown alfalfa seed.
9. Who produced 540 bushels of potatoes per acre?
10. What is one of the causes of colds in poultry flocks?



THE CHRISTMAS HEALTH SEAL.

THE sum of \$20,000,000 is a tremendous amount to spend on a stamp that will not even carry a letter. You gasp in indignation at the thought of such waste. But wait! The minute that I tell you that the "stamp" in question is the well-known Christmas stamp of the National Tuberculosis Association, you understand and smile in approval, for this little money raiser has not only taken \$20,000,000 from the pockets of the American public in fifteen years, but it has also performed the great feat of being the chief financial agent in reducing the national death rate for tuberculosis from over 200 per 100,000 citizens, seventeen years ago, to its present rate of a little less than 100 per 100,000 citizens.

The Christmas Seal has become so well-known in this process of work that it is as familiar as any of our nationally advertised articles. The average citizen, during Christmas Seal time, reads the message of the Christmas Seal in his morning paper. He is urged to buy seals by signs in the street cars and on the billboards. At his office, or shop, or farm he is told about tuberculosis in his daily mail or in conversation with his fellow worker. When the children come home from school they tell him of the Christmas Seal stories and quite likely bring seals home for him to buy. If he goes to the movies or the theater, he sees flashed upon the screen facts about prevention of tuberculosis and an appeal to "stamp out" the disease.

In 1921 Christmas Seals to the value of \$3,500,000 were sold. In 1922 the

National Tuberculosis Association has set its goal at \$5,000,000.

If anyone should feel critical about spending this vast amount of money for the prevention of tuberculosis, let him reflect upon the fact that this disease is estimated to cost the United States of America \$570,000,000 annually, and he will realize that \$5,000,000 for prevention is a small amount.

Five million dollars means an increase in sales of a little more than forty per cent, so it behooves every citizen who wishes to see tuberculosis "stamped out" to buy more Christmas Seals this year, buy them cheerfully and not only buy them but put them upon his letters and packages, because this nation-wide publicity is one of the chief agents in teaching people that tuberculosis is no longer a hopeless disease but is one that may be prevented and cured. The \$5,000,000 will support sanatoriums, clinics, nursing service and educational work against disease, and your own family will be safer because you have bought and used Christmas Seals.

PRESERVING CHILD'S FIRST TEETH.

Does it pay to have fillings put in the teeth of little children who have not yet had their permanent set?—Mrs. H. J.

The temporary teeth of young children must be preserved in the jaw until the permanent teeth are ready to take their places; otherwise the jaw will not develop properly and when the new teeth are ready to descend there will not be room. For this reason, if no other, it is necessary to preserve milk teeth.

Trappers-Fur Shippers

The Largest Fur House

In the Northwest

Percey's

50 YEARS IN OSHKOSH

Wants Your Furs

Exactly fifty years ago Percey's Fur House was established at Oshkosh to barter with the Indians and other trappers. Percey's fair treatment and square deal policy built such a reputation that trappers went out of their way to secure Percey's prices. A man's word was as good as his bond in those days, and through the northwest Percey's word was "as good as gold." It still is.

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In the Northwest

Percey's

50 YEARS IN OSHKOSH

FOR TOP PRICES

Percey's Prices

Percey's Prices are bonafide based on standard grading that insures you the largest returns.

Percey's Graders

Percey's Graders are men of years of experience having the highest reputation among fur shippers.

Percey's Checks

Percey's Checks for your furs means the most money for your catch. We pay express and parcel post charges on all shipments where charges do not exceed 10% of the value of the furs.

RUSH YOUR SHIPMENTS

Ship to Percey's NOW while prices are high. Honest grading, highest market prices and a square deal to all Fur Shippers for 50 years has made Percey's the Leading Fur House of the northwest.

We cater to dealers' lots and will send a representative on request. Write us **TODAY Sure** for Price List and Shipping Tags.

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Oshkosh, Wisconsin

50th ANNIVERSARY

1872 Percey's 1922

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Accept "Bayer Tablets of Aspirin" only. Each unbroken package contains proper directions. Handy boxes of twelve tablets cost few cents. Drug-gists also sell bottles of 24 and 100. Aspirin is the trade mark of Bayer Manufacture of Monoaceticacidester of Salicylicacid.

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Save Your Barns, fences, posts, rope, etc. Mercur-PRESERVER. Prevents rot. Gallon \$1.00. HOME PRODUCTS INC., Rahway, New Jersey

Eggs! Eggs! All Winter!

13 Eggs a Day from 15 Hens. Miss Wright Tells How.

"Late in October, our 15 old hens were not laying at all. I started giving them Don Sung, and for ten days they still didn't lay. But on the eleventh day, they laid 13 eggs, and it is wonderful what Don Sung has done for our egg basket through the fall, winter and spring. There never was another tonic like Don Sung."—Miss Dama Wright, Verona, Ore.

A \$1 package of Don Sung lasts 15 hens 90 days. The extra eggs for just a few days paid Miss Wright for her Don Sung. The rest was clear profit. You may not believe that hens can lay well all winter. Neither did Miss Wright until she accepted our offer. It's open to you—here it is:

Give Don Sung to 15 hens. Then watch results for 30 days. If it doesn't show you a big increase in eggs, if it doesn't pay for itself and pay you a good profit besides, tell us and your money will be promptly refunded.

Don Sung (Chinese for egg laying) acts directly on the egg-laying organs, and is beneficial in every way. It makes hens healthy and happy. They scratch and sing. Pullets develop earlier. The whole flock lays regularly in any season, in any weather, when eggs are scarce and high.

Can you afford to ignore the wonderful reports you are hearing from Don Sung users everywhere? Why not let us show you the same results, with your own flock? Don Sung is no trouble to use. It costs nothing to try. All we ask is a chance to prove our claims, entirely at our risk. Get Don Sung from your local dealer, or send 50 cents for package by mail prepaid (large size, \$1, holds three times as much).

Burrell-Dugger Co., 424 Columbia Bldg., Indianapolis, Ind.



DON'T LET THEM DIE!

ACT QUICK! SAVE THEIR LIVES BY USING

SMOKE-EM
CURED MEAT
THE GUARAN-
TEE ROUP CURE. A scientific
Druggless cure for roup, colds,
canker, diphtheria, and chicken
pox. A discovery of the world's
best known home of Holsteins,
Berkshires, and Leghorns. Chick-
ens. After losing thousands of dollars worth of
our treasured birds from roup, we were deter-
mined to discover a cure. Since discovering and
using "SMOKE-EM" for three years we have
not lost a chicken from roup. Sold under
a money-back guarantee. Thousands of
testimonials. You owe it to yourself and
to your poultry to write or wire us today for our large catalog
fully describing this wonderful roup cure. The price is low.
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Like Hen's
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Round like a hen's nest.
No cold corners. 15
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Only 5 quarts to hatch.
Costs less to operate. Write to-
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PULS! Freight or express prepaid.
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140-Egg Size—Guaranteed—has
double walls, copper tank, full-size
nursery, automatic regulation
thermometer held so that chicks
cannot break it when hatching.
Detroit Brooders, too. Double
walled, hot water heated. Write for
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A Hatch
Every Week
All Year

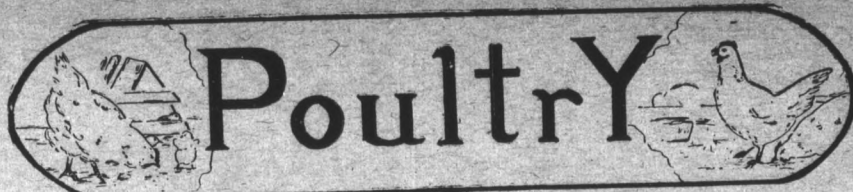
NABOB HATCHERY, Dept. 5, Gambler, O.

Pullets and Hens

Barron Strain S. O. W. Leghorns and Parks strain
B. Rocks. Large pullets starting to lay \$1.75 each. 12
weeks old pullets \$1.25 each. \$1.15 per 100. Selected
S. O. W. Leghorn hens \$1.00 each. \$95 per 100. Good
healthy birds no culls or weaklings.
PINE BAY POULTRY FARM, Holland, Mich.

Baby Chicks \$12.00 per 100 and up

Hatching eggs, \$1.50 per setting to \$15.00 per 100.
We are listing 17 varieties of pure bred fowls: Chick-
ens, Geese, Ducks & Guinea, also breeding stock.
Send for prices and circular. Booking now for early
delivery. CLENTON HATCHERY & POULTRY
FARM, Wilmington, Ohio.



FRESH AIR DUSTING.

IT is a fact that dusting is the nat-
ural method for a hen to clean up
and rid her body of lice. But when
dusting boxes are used in the winter
laying quarters the air of the house is
cloudy with dust most of the day. This
dust makes the house unpleasant and
unhealthy for both the hens and their
caretaker. Dusty air seems to be one
of the causes of colds in some flocks.
Some poultrymen have successfully
used an outside dusting box. Just out-
side one of the trap doors of the house
a small, waterproof shed is construct-
ed. The front of the small low shed
is all open so the dust is blown out-
side. The dusting box is far enough
back from the front to keep the earth
dry.

If such an arrangement is not used
I think it best to leave out the dust
box in the laying-quarters. All of the
birds can be treated with blue oint-
ment to prevent lice. Then they can



It is Strange, But Probable, that Soon
Well-Bred Foxes and Chickens will
be Kept on the Same Farms.

dust around in the loose straw litter
if they wish but there will be no thick
dust constantly kicked into the air and
fanned all over the nests and walls.
Many poultrymen have found it satis-
factory to have the hens do all their
dusting outside in the fresh air and
give them no chance to contaminate
the poultry house air by inside dusting.

FEEDING MILK PRODUCTS.

THE use of milk in producing eggs
and poultry meat is becoming
more general as the good results are
evident. Breeders who do not produce
milk at home can often buy the com-
mercial semi-solid buttermilk. Experi-
ments have proven that five pounds of
sour skim-milk is about equal to a
pound of the commercial semi-solid
buttermilk.

The cash value of the sour milk for
poultry feeding is rather difficult to
determine, but a fair price of seven
cents per gallon has usually been con-
sidered fair. The commercial semi-
solid buttermilk usually costs close to
four cents per pound, although the
cost is greatly influenced by the
amount purchased and the freight
rates.

There are quite a few poultrymen
mixing their own dry mash by pur-
chasing the semi-solid buttermilk for
the protein and then adding as much

home-raised grain as possible, plus the
necessary items purchased of their
neighbors or elevator. This makes an
economical mash and the poultryman
knows what he is feeding.

There seems to be a value to feed-
ing milk that cannot be expressed eas-
ily in cash. It has the vitamins which
produce growth and vigor. Breeding
stock that have milk in their ration
seem to produce more hatchable eggs
than hens which get all their protein
through beef scrap or fish scrap.

In feeding liquid sour milk and but-
termilk the dishes should be frequent-
ly scalded and scrubbed with a corn
cob to loosen the gummy accumula-
tions. Dirty milk seems to be a source
of digestive troubles. Do not feed sour
milk in any type of fountain which
cannot be opened up so you can see
all the inside when it is rinsed and
cleaned.

DECEMBER POULTRY NOTES.

The late moulters need protection
from exposure when shy of feathers in
cold weather. It pays to keep them
confined on windy days and furnish a
ration that is well balanced and suf-
ficient to develop a rapid feather growth.
These late moulters are the best lay-
ers and it costs money to lose birds of
that type.

Now is a time when the good care
of poultry shows up. The flocks which
have been underfed through the sum-
mer are not ready for winter laying.
The pullets which have had a balanced
ration have developed large frames and
plenty of vigor. They are ready for
the strain of heavy winter laying. The
poultry keeper who has neglected his
flock cannot hope to make up for lost
time. The best of rations will help to
improve the poorly fed flock but they
will never equal the birds that have
made a rapid normal growth from the
start.

Fish meal is being fed to some lay-
ing hens with good results. About
twenty per cent of the mash is the
usual recommendation. The commer-
cial dried buttermilk is another source
of protein that is meeting with favor
among poultrymen. A good grade of
beef scrap is still the reliable standby
of many breeders. But whatever you
feed, do not neglect the protein if you
need winter egg money.

TURKEYS WITH COLDS.

What has gone wrong with our tur-
keys? Out of a flock of about thirty-
five there are six visible cases. The
trouble started about a month ago with
swelling around their eyes to such an
extent at times that they can not see
to eat. No bowel trouble, no spots or
patches in mouth; the only discharge
is a frothy substance that forms over
their eyes. They sneeze quite fre-
quently.—S. J. M.

The turkeys have colds which may
result from dampness or a general lack
of vigor or overcrowding at roosting
time. An open front shed which is
tight on three sides makes a good tur-
key house. The sick birds will need
individual attention. Remove the mu-
cous from the nostrils with tissue pa-
per, and then run them with camphor-
ated vaseline. Dipping the heads in a
solution of commercial disinfectant
will sometimes cure colds. Injecting
a solution of potassium permanganate
into the nostrils with a medicine drop-
per is often helpful.

Colds spread in a flock by means of
the drinking water. Placing disinfect-
ant in the water will help to control
colds.

Kentucky's Finest Good Old Melon Sweet Green River Tobacco

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The finest genuine Homespun Smoking Tobacco
Green River's Famous Fertile valley can pro-
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as nature intended it
to be—sweet—pure—
satisfying. Aged and
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how to do it. Its old
melon sweet, natural
flavor and smoothness
cannot be equalled.
Comes to you as pure
as when it left the
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Guaranteed free from chemicals and adulter-
ations. Simply ground up ready for the old
pipe—the most satisfying smoke you ever had.
Sold direct from factory to you at lowest
prices ever offered.

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To quickly introduce our famous Green River
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making a special offering for a short time only
of two \$1.10 lb. cans for only \$1.00. Send \$1.00
today (currency, money order, check, etc.) If
not convenient to send \$1.00 today, just your
name and address and pay postman \$1.00 and
postage on delivery. If after thirty days' trial,
you are not absolutely satisfied, your
money will be refunded. This offer is abso-
lutely guaranteed, so don't hesitate to make
the test.

Comes in three blends—mild, medium or strong.
In ordering state which blend you prefer.
This tobacco must be just as represented.
Must satisfy you or your money will be re-
funded without quibble or question. Rush
your order today, sure.

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More \$
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OPERATES
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KEROSENE
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Look! See What You Get—Special WITTE
Throttling Governor Engine with non-spill
extension hopper—weight over axle—2 wheel
truck—easy to move. Direct Geared. Lever con-
trolled clutch—Arm swing motion. We have
only one Log Saw—our New Improved. Lighter,
stronger—steady running—worth more. Lifetime
Guarantee—Cash or Terms—Immediate Ship-
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POULTRY

Barred Rocks egg contest winners, eggs from 8 rain
per setting prepared by E. P. Circular free. \$2.00
FRED ASTLING, Constantine, Mich.

Barred Plymouth Rock Cockerels \$5.00 each. Prize
winning laying strain.
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R. C. Br. Leghorns, Pekin Ducks, W. Chinese
Geese, both mature and young
birds. Mrs. Claudia Betts, Hillsdale, Mich.

PERFECTED WHITE LEGHORNS FREE
Lay 265 to 301 eggs per year. Winners at 50 shows.
Chicks, eggs, pullets, hens and males shipped C.O.D.
at low prices. Write today for catalog and complete
information to the World's Largest Leghorn Farms.
GEO. B. FERRIS, 934 UNION, GRAND RAPIDS, MICH.

B-A-B-Y C-H-I-X

Order Now For 1923

WHITE LEGHORNS and MOTTLED ANCONAS
Also Black Leghorns, Brown Leghorns, Buff Leg-
horns, Black Minorcas, R. C. Rhode Island Reds,
Barred Plymouth Rocks, White Plymouth Rocks,
Silver Wyandottes, White Wyandottes. WE HATCH
eggs from Hogenized flocks on free range on separate
farms. Send for Price List.

CRESCENT EGG COMPANY
Allegan Michigan

RHODE ISLAND WHITES

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

S. C. White Leghorns

Cocks and Cockerels

RALPH S. TOTTEN, Pittsford, Mich.

WHITE WYANDOTTES

207 egg average. Eggs all matings, \$2.00 per 15, \$10.00
per 100. Cockerels, hens and pullets \$5.00 each.
FRANK DELONG, R. 3, Three Rivers, Mich.

Bred-To-Lay White Wyandottes
Special sale of cockerels from 200 egg hens for \$5.00
if taken early. EVERGREEN POULTRY FARM,
Blanding & Sons, Greenville, Mich.

Dairy Farming

A Successful Dairyman

He Gets \$2.79 for Every Dollar Invested in Feed

ANY farmer could produce milk of low bacteria count with the barns and equipment frequently pictured in dairy literature. But it is quite another matter to start in debt with scrub cattle and a straw shed, and build a high-class milk business, buy a farm and educate a family of children.

We have in Kalamazoo a man who has, in the face of just such handicaps, bought a farm and built up a herd of cattle that will challenge the admiration of the most critical. Of his herd, H. E. Dennison, of the M. A. C., said "That is one of the finest herds of grade Guernseys I have seen in the state."

Twenty-five years* ago this man brought his bride to his ancestral home, which he had purchased from the heirs by going heavily into debt. He owned a team of horses, a few tools, had unlimited faith and a bride. She brought as a dower to her new home a heifer calf. This calf grew and multiplied and her descendants are now among the best animals in this herd. In fact, I think the entire herd has descended from two cows.

With this man, the big problem has always been the sire. His one thought has been to get a herd leader a little better than the preceding one. Long trips were made in the horse-and-buggy days to study the ancestors and get some prospective sires. This man raised what he thought was his best calves. He was naturally a good feeder so that his stock had good opportunity to grow.

Some years ago when the city of Kalamazoo asked for better milk, this man had a supply ready. He was one of the very first to get a premium for his product and he has been getting it ever since. A little more pains at milking time, cooling quickly in warm weather and keeping the product in condition until it is delivered are the things that made buyers seek after this man's product.

"He feeds up everything he can get hold of," remarks his neighbors. Yes, and he buys more, but he always uses care in his feeding, and care in keeping good cows. If more would exercise the same care, they would make larger returns. Last year this man's cows returned him \$2.79 for every one dollar invested in feed. That is what tells the story of his success.

His breeding operations have not been the result of a preconceived plan. His single object seemed to have been to get the best possible sires. Strange as it may seem to the student of pedigrees, three of these sires have been line-bred Glenwoods and the fourth is a Glenwood with a Golden Noble Top cross.

The original fifty acres have been built up and more land has been bought, two silos built, the house and barn remodeled so that the work can now be more quickly and pleasantly done and the cattle may be kept in better shape. In 1920, when cow-testing work was organized in that county, this man was one of the first to sign up. And last summer he was heard to remark that if he could have been in such an association ten years earlier he would have been much farther ahead.

In handling his cows, the same painstaking care is seen. They are not forced to stay out in a storm all day, nor obliged to drink ice cold water. The tank heater is kept going in cold

weather and when it is stormy the cows are allowed outside only long enough to get the water they need.

We should not get the idea that because so much attention is given to the cows that there is no time left in which to live. This man and his wife are active members of various farm organizations and they have reared and educated a fine family of children, of which they have every reason to be proud. We need more farmers and home-makers like Mr. and Mrs. T. I. Rea.—S. P. Sexton.

GRADE MILK, NOT BARN.

WHILE the practice of scoring barns and the conditions under which milk is produced, has brought about remarkable improvement in the milk offered for consumption, it is more important to grade the milk itself according to reports made at the Geneva Experiment Station. In the control of milk emphasis should be placed on the quality of the milk itself as shown by the bacterial count, flavor, butter-fat content and dirt. Exercising control over the quality of the milk automatically controls the conditions under which it is produced. Much evidence is available to show that contamination of milk from the barn and cow is relatively unimportant as compared with the possibilities of the large numbers of bacteria getting into the milk from utensils.

CALF HAS GOOD START.

AT the George Koehner farm, near Monroe, Wisconsin, a Holstein cow gave birth to a calf weighing 127 pounds. Live stock authorities say that this is very unusual as the average weight of calves is between seventy-five and eighty pounds. As this calf is normal in every way, it has nearly fifty pounds advantage in weight over the normal calf.

GOOD MILK PRODUCER.

BROOKSIDE COLANTHA, a British Friesian cow, is making a good record in milk production. At slightly over eight years of age she has produced over three thousand gallons of milk per year. This cow was milked four times a day and has frequently given more than eleven gallons of milk a day. She has had five calves and has yielded more than fifty times her weight in milk.

NOVEMBER MILK PRICES.

WHILE the average prices paid for milk testing 3.5 per cent butter-fat in the east north central states during November ranged from \$1.40 to \$2.85 per cwt., the prices paid by dealers for raw milk delivered f. o. b. Michigan cities ranged from \$2.00 in Bay City to \$2.60 in Detroit and Grand Rapids, and \$3.20 in Kalamazoo for four per cent milk. At Ann Arbor \$2.25 was paid and at Lansing \$2.15.

Nobody cries when a scrub bull dies.

Says Sam: Stick a "p" in front of the word "luck" and say it in American.

SELLS MORE THAN INTENDED.

Inclosed find check for sheep advertisement. Sold twice the number I had intended selling.—George C. Doster, Doster, Michigan.



"My cows are now being milked with the De Laval Milker, operated by my son and daughter, better than they used to be by good hand milkers."—F. O. Ganshert.

Mr. F. O. Ganshert of Gratiot, Wis., is just one of thousands of De Laval Milker users who have found in their De Laval Milker the "better way of milking," which makes their business more pleasant and profitable. During the season when he is busy with field work, his son and daughter, thirteen and ten years old, with the help of a De Laval Milker, do all the milking.

He says:

"The working parts of the entire De Laval installation are so simple and uniform in operation that any boy or girl can operate it. My cows are now being milked with a De Laval Milker, operated by my son and daughter, better than they used to be milked by good hand

milkers. In the past two years I have used the De Laval Milker, I have never had a bad quarter or udder, and have never been troubled in the least with it."

Mr. Ganshert delivers his milk to a cheese factory, and the manager recently said: "The Ganshert milk is the cleanest and best which comes into my factory."

This is not an unusual instance of what a De Laval Milker will do. Thousands of progressive dairymen know it is a wonderful help in cutting the cost of producing milk, in increasing production, and producing cleaner milk. With a herd of ten or more cows a De Laval will soon pay for itself. Sold on easy terms.

Send for complete information

The De Laval Separator Company

NEW YORK
165 Broadway

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SAN FRANCISCO
61 Beale St.



Sooner or later you will use a De Laval Milker and Cream Separator



BIG 10 ounce PACKAGE 60 cents

FREE 2 ounce SAMPLE

BAG BALM

Don't Dally With Injured Udders

BESIDES the danger of serious permanent results, hurts or sores on the udder and teats seriously check the milk yield. The full milking comes from the cows with soft, silky udders, and smooth healthy teats.

Bag Balm, the great penetrating ointment, assures udder health. Quickly heals cuts, scratches, chaps, bruises and Caked Bag. Very valuable in treating Bunches and Cow Pox.

Every barn should have this big 10-ounce package of Bag Balm. Costs only 60c and goes a long way. Feed dealers, general stores and druggists sell it. Let us send free booklet, "Dairy Wrinkles," and if you have never used Bag Balm, send coupon below for free sample.

DAIRY ASSOCIATION
CO., INC.
Dept. D
Lyndonville,
Vt.

SAMPLE COUPON

Dairy Asso. Co., Inc., Lyndonville, Vt. Please send free sample of Bag Balm

Name.....

Address.....

Dealer's name.....

White Wyandotte Cockerels. Finest Bred-to-kill Stock.
HOWARD GRANT, Marshall, Mich

Bourbon Red Turkeys We have them. Order your Birds and Eggs now.
SMITH BROS., R. 3, Augusta, Mich

BARREN COWS are the results of CONTAGIOUS ABORTION

Prevent this by using ABORNO. Easily administered by hypodermic syringe. Kills abortion germs quickly without harming cow. Write for booklet with letters from users and full details of Money-Back Guarantee.

ABORNO LABORATORY
44 Jeff St. Lancaster, Wis.

Trial Offer—We bring midwest farmers' utility poultry paper, twice-a-month for 3 months. Poultry Guide, Box D, Montpelier, Indiana

POULTRY

Whittaker's R. I. Reds

Michigan's Greatest Color and Egg Strain. A flock average of 24 eggs per hen is reported by Mr. Jay B. Deutch, Big Bay, Mich., for the month of January, 1922. We will give 100 Grade "A" chicks to the customer who will beat this record, with Whittaker's Reds, during January, 1923. Write for particulars, also prices of chicks and eggs for next season. Our hatchery is small, we produce QUALITY not QUANTITY, so order early to avoid disappointment.

INTERLAKES FARM

Box 39 Lawrence, Mich.

Laying Pullets

A limited number of laying White Leghorn Pullets; these Pullets are in prime condition and will make you a good investment for eggs this winter and in the spring.

A pen of very fine Anconas; and one pen of Buff Orpingtons.

White Leghorn Cockerels, English breeding; also White Rock Cockerels.

Let us quote you on these birds.

STATE FARMS ASSOCIATION

201 Chase Bldg., Kalamazoo, Michigan

"Ringlet" Barred Rocks, dark matings, a few choice cockerels, bred from prize winners. Satisfaction guaranteed. Earl Murphy, Britton, Mich.

Single Comb Buff Leghorn

Early hatched cks. Willard Webster, Bath, Mich

Single Comb Black Minorcas. Few choice cockerels, grandsons of our 12.

lb. cock. R. W. MILLS, Saline, Mich.

Geese and Ducks

Extra large Toulouse. Embden, African \$4.00 each; Brown, also White China Geese \$3.50 each; Giant Pekin, Buff Orpington, Little Gray Guller Ducks \$2.50 each. Mallard \$1.50; Pearl, also White Guineas \$1.50 each. Eggs in Season.

CEDAR LAWN POULTRY FARM, Wapakoneta, O.

White Holland Turkeys

Toms, \$15.00; hens, \$10.00; Trios, \$30.00. Toulouse Geese, \$8.00; ganders, \$10.00; Trios, \$25.00. This is all A. No. 1 stock, order direct from this ad. to insure getting order filled. We ship nothing but the best. ALDEN WHITCOMB, Byron Center, Mich.

Michigan's Best Giant Bronze Turkeys

Healthy range-bred birds from world's best strains. Unrelated stock furnished. N. Evelyn Ramsdell, Ionia, Mich.

BREEDERS' DIRECTORY

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

Edgar of Dalmeny **George Henry**



5 Grand Champions
28 FIRSTS

and other prizes. Such was the remarkable performance of our animals at the 1922 Michigan State Fair. What could be better proof of the unvarying quality of our animals or more representative of the ideal for which we have striven? Our success is the natural culmination of our efforts and our reward for years of careful and costly breeding. Ours is symbolic of the best. Mediocrity is not tolerated.

Our success can also be yours. Our young animals are the finest examples of breeding and will do much to improve your herd. Get the blood of the King of Sires **EDGAR OF DALMENY** into your herd and you will have individuality, distinction and quality.

The services of our Grand Champion Stallion, **GEORGE HENRY** are available.

Your correspondence and inspection are invited.

WILDWOOD FARMS
ORION, MICHIGAN
W. E. SCRIPPS, Prop. **SIDNEY SMITH, Supt.**

Registered Aberdeen-Angus cattle. Two bulls from eight to eleven months old. One show bull, large and growthy. Priced reasonable. Inquire of **F. J. WILBER**, Clio, Mich.

FOR SALE. Several registered Aberdeen-Angus bulls and heifers of various ages. **LANG BROS.**, Davison, Mich.

For Sale Guernsey Bull
Flossie's Red Bullie of Missaukee 76320 born May 19, 1921. Sire Noman of Chesney Farms 39657 A. R. Dam Fairy's Flossie of Reeder 38211 A. R. milk 9328.30, butterfat 536.19, class E. E. Bull is light fawn and white, has clean nose and straight top line, guaranteed a sure breeder. Has 1/2 same breeding as Noman's Missaukee Red Rose A. R. 10844 1st in G. and G. G. milk 15122.3, Butterfat 760.72. Price of bull \$150. **A. M. SMITH**, Lake City, Mich.

Registered Guernseys
Another crop of calves. Choice bull calves \$75, their breeding and records will please you.
J. M. WILLIAMS, No. Adams, Mich.

For Sale
One young Guernsey Bull Calf, Federal accredited Herds. Dam on A. R. Test. Price right.
GILMORE BROTHERS, Camden, Mich.

GUERNSEYS—REGISTERED BULL
Calves. Containing blood of world champions. A. R. cows. Federal inspected. **HICKS' GUERNSEY FARM**, Saginaw, W.S. Mich.

Guernsey Bull ready for light service. Bred heifer. Yearling heifer. Adv. Reg. breeding. Free from disease. **G. A. Wigent**, Watervliet, Mich.

Wallinwood Guernseys
Young bulls from A. R. cows for sale.
F. W. WALLIN, Jenison, Mich.

For sale Registered Guernsey cows. May Rose Breeding also bull calves \$50 each. Registered A. R. dams.
JOHN EBELS, R. 2 Holland, Mich.

WINNWOOD HERD

Registered Holsteins

?

Ask us about a Real Bull a
Maple Crest or an Ormsby.

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

The Traverse Herd

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

TRAVERSE CITY STATE HOSPITAL
Traverse City, Mich.

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

COLANTHA BULLS

All ages, from high-producing dams. Also a few registered and high-grade Holstein cows at farmers' prices. Pedigrees and prices upon request. A clean herd under Federal supervision.
WHITNEY FARMS, Whitney, 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 **GEORGE D. CLARKE**, Vassar, Mich.

Yearling Bull, \$100

Pure bred, registered, federally tested. Dam, a 18 lb. 3 yr. old daughter of King Segis Pontiac 37 lbs. Good individual, mostly white. Guaranteed healthy. Priced to sell quickly. Pedigree on request.
ALBERT G. WADE, White Pigeon, Michigan.

FIRST ANNUAL AUCTION SALE

22 Holstein-Friesian Cattle 22

Sold At Farm Dec. 22, 1922

Sharply at 12 o'clock

Herd free from tuberculosis. Farm 15 mi. N.W. of Clare, 10 mi. N. of Coleman, 6 mi. N.W. of Beaverton or 10 mi. S.W. of Gladwin. Trunk line road within two mile of farm. 1 years time on bankable notes given. Full particulars in catalog. Write for one NOW.

WOLVERINE DAIRY FARM

H. G. Booth, Prop.

REGISTERED HOLSTEINS

Young Bulls that will please you in breeding, individuality and price. Some of them are very desirable for heading pure bred herds. Federally accredited, **I. M. SHORMAN**, Fowlerville, Mich.

For Sale a semi-official daughter of Maple Crest Korn. Hengerveld. Federal tested, also a few granddaughters from 1 to 3 yr. old. Terms if wanted. **M. L. McLaughlin**, Redford, Mich.

For Sale King Segis Breeding

Nine months old bull, whose seven nearest dams average 27.72. This is the last of my nineteen of this age. The others are all sold.

Grand River Stock Farms

Corey J. Spencer, 111 E. Main St.
JACKSON, MICHIGAN

For Sale Cheap Fine Holstein yearling show bull, brother to 28.82 lb. 2 yr. old. Accredited herd. Write for pedigree and price. **WILLIAM H. HIGGINS**, Vassar, Mich.

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

FOR SALE: Jersey bulls ready for service. All cows Register of Merit. Accredited herd. **SMITH AND PARKER**, R. 4, Howell, Mich.

Lillie Farmstead Jerseys. For sale, 3 heifers bred to free-horn fall, 2 bull calves, 6 to 9 mo. old. **Colon C. Lillie**, Coopersville, Mich.

Registered Jersey cattle young bulls, for sale. Herd accredited. **J. L. CARTER**, Lake Odessa, Mich.

HEREFORDS

For Sale at Farmer's prices.
5 yearling bulls 8 yearling heifers
10 of the above sired by our \$5200 Repeater bull. We have others not related. This is an opportunity to start in good stock at a moderate price.

ALLEN BROS.

616 So. West St., Kalamazoo, Mich.

Herefords For Sale

5-2 and 3 year old registered Polled heifers, with heifer calves by side, price \$150 to \$175 each. Also 2 bull calves born in April, price \$75 each.

COLE & GARDNER

Hudson, Mich.

HEREFORD Herd Header for sale. a 2000 lb. tried sire. can show his progeny. Can't use longer, priced to sell. **E. J. TAYLOR**, Fremont, Mich.

Herefords For Sale. Bulls, cows and heifers.
RALPH CALHOON, Bronson, Mich.

BIDWELL SHORTHORNS

BUY A BULL

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

BIDWELL STOCK FARM,
Box D, Tecumseh, Michigan

Milking Shorthorns priced reasonably. An accredited herd selected for beef and milk. **Beland and Beland**, Tecumseh, Michigan

FOR SALE

Polled Shorthorn Cows & Heifers

in calf and calf by side. Also a few young bulls. Herd headed by Victor Sultan and Royal Nonpareil.

We can please you in richly bred cattle with quality at farmers' prices.

GEO. E. BURDICK, Mgr.
Branch County Farm, Coldwater, Mich.

RICHLAND SHORTHORNS

We are offering two splendid white yearling bulls by Imp. Newton Champion and a few extra good heifers and young cows at very attractive prices. For full particulars write to

C. H. PRESCOTT & SON,

Herd at Prescott, Mich.

Office at Tawas City, Mich.

Central Mich. Shorthorn Breeders' Assn offer for sale both milk and beef breeding, all ages. Write **M. E. MILLER**, Sec'y, Greenville, Mich.

Milking Shorthorns Bull calves for sale. Also 2 cows. **ROSEMARY FARMS**, Williamston, Mich.

Clayton Unit Shorthorn Breeders' Assn. Scotch, Scotch Top and Milking Shorthorns for sale all ages. **W. J. Hinkley**, Sec'y, Flushing, Mich.

Shorthorn Bull calf. Pure Scotch, and extra fine one. Ready for service. Photo Free. **FRANK H. RUSSELL**, Wakarusa, Ohio.

RED POLLED CATTLE—A few choice bulls and heifers for sale.
ROYSTON STOCK FARM, Will Cottle, R. R. 1, West Branch, Mich.

Steers For Sale

120 Herefords 800 lbs. 48 Herefords 880 lbs.
80 " 675 lbs. 87 " 570 lbs.
47 " 500 lbs. 84 Shorthorns 600 lbs.

All are steers and the best of quality, dark reds, dehorned, each bunch even in size, good grass flesh. Also know of other bunches. Some just fair flesh account short pasture. Your choice from any bunch. **VAN V. BALDWIN**, Eldon, Wapello Co., Iowa.

HOGS

Duroc-Jerseys

TOPMAST SENSATION

is at his home

The sensational, undefeated pig of 1922. Sired by **UNIQUE SENSATION**, Junior Champion, National Swine Show, 1921. We are breeding only a limited number of sows to this boar. **WE HAVE ONLY A FEW SPRING-BOARS LEFT.** Prices very reasonable. **WRITE IN NOW.**

LOEB FARMS

Charlevoix, Michigan

"The Home of Grand Champions"

BROOKWATER DUROC JERSEYS

Ready for Service Boars

Sired by Panama Special 55th and Big Bone Giant Sensation.

BROOKWATER FARM, Ann Arbor, Michigan
H. W. Mumford, Owner. **J. B. Andrews**, Lessor.

Duroc Fall Yearling

and spring boars. Some real herd prospects sired by **O. K. Col. 2nd**, All Col. of Sangamo and Diamond Joe. Priced to sell. Fall pigs either sex. Write for description and prices.
W. C. TAYLOR, Milan, Mich.

Wetsview Duroc Bred Sows

all sold. Have two spring boars left at a reasonable price. Will book orders for April & May pigs.
ALBERT EBERSOLE, Plymouth, Mich.

Woodlawn Farm Duroc Hogs meet present day requirements, length, size and quality. Young stock for sale at reasonable prices and fully guaranteed. Write your wants. **W. E. BARTLEY**, Alma, Mich.

DUROC-JERSEYS Choice fall pigs and sows bred for Mar. and April farrow, priced right.
KUSH BROS., Romeo, Mich.

Durocs—choice lot spring boars sired by Great Duration, Brookwater Satisfaction 8th and Greater Orion King. **Norris Stock Farm**, Casnovia, Mich.

Undeclared under year Duroc boar of Michigan and Junior champion at state fair and a number of other boars for sale. Sensation and Pathfinder breeding predominating. **Michigan Farm**, Pavilion, Mich.

Duroc spring boars, gilts, summer and fall pigs for sale. Reasonable prices and satisfaction guaranteed. **Jesse Bliss & Son**, Henderson, Mich.

DUROC-JERSEYS Do you want a good Pathfinder boar pig?
E. D. HEYDENBERG, Wayland, Mich.

DUROC-JERSEYS Spring Boars for sale.
CAREY U. EDMONDS, Hastings, Mich.

Durocs all ages, very prolific, big bone, good breeding. Write for prices, age, etc. Satisfaction or money back. **B. E. KIES**, Hillsdale, Mich.

BIG TYPE CHESTER WHITES

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

Chesters We are sold out of Boars. Choice spring pigs. For immediate shipment of spring pigs, write **WEBER BROS.**, Royal Oak, Mich., 10 mi. and Ridge Rds., Phone 408.

CHESTER WHITE BOARS
Prize winners, from prize winning stock, for sale at reasonable prices. **F. L. Bodimer**, Reese, Mich.

Chester Whites We still have some good March boars for sale also fall pigs, both sexes at right prices.
F. W. ALEXANDER, Vassar, Mich.

Chester Whites. Choice spring gilts bred to Giant, 2nd prize boar at State Fair. Also fall gilts.
LUCIAN HILL, Tekonsha, Mich.

Registered O. I. C. Boars

J. CARL JEWETT, Mason, Mich.

O. I. C. 50 last spring pigs either sex not akin. Big, growthy stock, recorded free, 1/2 mile west of Depot, Citiz. Phone.
OTTO B. SCHULZE, Nashville, Mich.

O. I. C. & Chester White Swine strictly big type with quality. The kind that grow large. A few spring pigs either sex. **Newman's Stock Farm**, R. 4, Marlette, Mich.

O. I. C's. Spring gilts and service boars for sale. Prices right.
A. J. BARKER & SON, Belmont, Mich.

O. I. C's Spring pigs. Pairs not akin. Also July, August, and Sept. pigs. **MILO H. PET-ERSON**, Elmhurst Farm, Ionia, Mich. Citiz. Phone

Registered O. I. C. April Boars also July Pigs. Shipped O. O. D.
CHAS H. STEEL, R. 8, Eaton Rapids, Mich.

O. I. C. 15 large growthy Mar. boars at Farmers' prices.
CLOVERLEAF STOCK FARM, Monroe, Mich.

Registered O. I. C. Boars

H. W. MANN, Danville, Mich.

Spring Boars Now Ready To Ship
H. O. SWARTZ, Schoolcraft, Mich.

Lone Maple Farm L. T. P. C. March Boars and gilts ready. Prices reasonable, stock as represented. **F. R. Davis & Son**, R. 3, Belding, Mich.

B g Type P. C. Spring boars and gilts ready for new homes. Also sows and pigs.
CLYDE FISHER, St. Louis, Mich.

Handling the Calves

By P. P. Pope

IN raising any kind of live stock it is desirable that they very early in life become accustomed to the presence of man. They should learn to regard him as a purely beneficent being, which means that he must act the part.

Success in stock raising requires that the animals be kept comfortable and free from excitement and worry. This is out of the question when they are allowed to become wild and race all over the yards when any one appears. Gentleness with live stock has been well termed the sine qua non of thrift. How much better it is to have



heifers or the pigs crowd each other out of the way for the satisfying scratch on the back than to have a "battle royal" whenever it is necessary to handle one of them.

The calves, especially those intended for breeding purposes, should be familiarly handled from birth, always with gentleness, but also with firmness. They should be broken to halter early, before they are strong enough to make serious resistance. They will very soon learn the lesson of submission and as an old friend puts it, "when once they learn that man and the halter is stronger than they are, they never know no better."

We who have small herds and care for them in addition to doing the regular work of the farm, often find it difficult to spare the time necessary to carry the training to the point most desirable, and so during the busy season when the cattle all together have the run of the pastures, the matter of personal attention is apt to be neglected.

Now that winter is right at hand and the fields locked up to the plow, we make it a part of our winter's job to see that the calves get their share of attention. If they have not as yet had their lesson at the halter, their time has now come and they are groomed and fondled until they are not afraid, then taught to stand tied to the mangers and to lead. Only the gentlest of treatment is permitted at this time, coupled with insistence on doing what we attempt. That the calf objects and makes blind efforts to escape does not mean that he is stubborn and unruly, but only that he doesn't understand what is wanted, and is afraid. His education is best accomplished by the exercise of kindness, patience and perseverance oft repeated.

Feeding.

At feeding time the calves are sorted according to age and sex and placed in separate boxes, where they may learn to eat grain and a variety of other foods without being molested by the older stock.

At first they are kept in the boxes only at feeding time and are allowed to run loose with their dams the rest of the time. But within a few days they will show signs of enjoying the seclusion and comfort of the box stalls so are kept in over night. They are let out the first thing in the morning to nurse then, after the morning feed, are given the freedom of the yards for the day. They thus learn to depend more and more upon the feed box and less and less upon the dam until they are weaned almost without knowing it, and with no setback whatever.

Variety of Feeds.

We like to give a variety of feeds, starting with ground oats and barley and bran, to which we soon add brok-

en or crushed ear corn. This ration is gradually increased until within thirty days they are getting about all they care for. As they grow older, of course, the heavy grain feeding is not necessary, nor desirable, but there is little danger of getting a calf too fat. For roughage we also give a variety and to the baby calves the choicest bits available.

Veterinary.

CONDUCTED BY DR. W. C. FAIR.

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

Tapeworm.—Our dog has been troubled for some time with large flat shaped worms of different lengths. Kindly tell what to do for him. R. M. W., Ithaca, Mich.—After fasting your dog for twenty-four hours and clearing out the stomach and bowels with a full dose of castor oil, give him from fifteen to sixty drops of oil of male fern, followed in eight or ten hours with a saline cathartic. The expelled worms should be carefully examined to ascertain if the head has been expelled, and if not, the treatment should be repeated in ten days. Don't neglect to burn all segments of the passed parasites, also the excrement.

Diarrhea.—I have a six-month-old pig that has been troubled with diarrhea for the past three weeks and have given it different home remedies which fail to help it. L. A., Bear Lake, Mich.—If you have not already given your pig a tablespoonful of castor oil, or two grains of calomel, do so; one dose only. Give five grains of salol at a dose three or four times a day.

Indigestion—Worms.—I have a thirteen-year-old horse that was low in flesh when I bought him last May and since then he has passed worms. I have given him salt and wood ashes with very little success. I wish you would tell me what to do for him. J. R. W., Middleville, Mich.—Give him one dram of powdered sulphate of iron, a teaspoonful of salt and a tablespoonful of powdered gentian at a dose in feed twice a day. Increase his grain ration, also feed some clover, alfalfa or roots.

Bursal Bunch.—I have a heifer that has a bunch on left hind leg at ankle. The bunch is soft part of the time, at other times hard; it is not always the same size. Can it be removed? O. J. B., Unionville, Mich.—Clip hair off and paint bunch with tincture of iodine three times a week. Such a bunch is not easily reduced.

Teat Stricture.—Have a Jersey cow that milked easy up to a few days ago. Since then one teat is about closed, no pain. C. C. C., Three Rivers, Mich.—With dull steel probe dilate the teat canal.

General Stiffness.—I have a ten-year-old draft mare which has been stiff in front legs for some time. About silo filling time she did three hard days' work, since then she has been sore and stiff. No swelling or bunches on legs. She had worked for two years in collar she wore during the three days I mention, therefore it could hardly be the collar that caused her soreness. Exercise seems to afford partial relief. H. S., Adrian, Mich.—Chronic soreness such as she has is usually confined to the feet and joints. The very best you can do is to have her well shod, and give her good care. Apply lanolin to hoofs daily.

Weakness.—I have a seven-year-old cow which, after freshening, gets thin in flesh and very weak, lingers along until she is unable to get up without help. H. B., Clinton, Mich.—Increase her food supply, give her one dram of fluid extract of nux vomica at a dose three or four times a day.

Barrenness.—I have a twelve-year-old cow that has raised ten calves, but now she fails to get with calf. I also have two heifers that come in heat regularly, been served by different sires, but fail to breed. W. V., Milford, Mich.—First of all, wash vagina with soap and water before you commence the yeast treatment. Dissolve a cake of compressed yeast in one quart of tepid water, let it stand in warm room for two or three hours, strain, then apply, using clean fountain syringe. All three animals should be treated daily for at least one week before they come in heat and are served. Your twelve-year-old cow may never breed, but give her a good trial.



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John Olson spent 10 years of his life, ten years of hard patient work in building up his herd. Yesterday success seemed just around the corner. Today he's on the brink of ruin! 23 of his best cows reacted to the Tuberculosis Test! They had "cow consumption".

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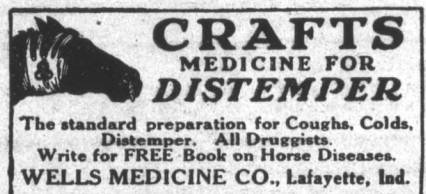


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HOGS

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Boars and gilts for sale from one of the best herds in Mich. Sired by B's Clansman Mich. 1921 Grand Champion. Alasha, M and W's Orange and Daddy Long Legs 2nd. Give us a visit and look them over if not write to N. F. BORNOR, Parma, Mich.

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Choice Gilts \$25 to \$40. Boars \$30. Fall Pigs \$15.
HART AND CLINE, Address F. T. HART, St. Louis, Mich.

Big Type P. C. some very choice boars double immune, out 1100 lb. sire and mammoth sows from Iowa's greatest herds. E. J. Mathewson, Burr Oak, Mich.

LARGE TYPE P. C.

Largest in Mich. Pig ready to ship, why not order from the herd that has given so many their start in the hog business, the kind that makes good, they have quality as well as size.
W. E. LIVINGSTON, Parma, Mich.

Leonard's Big Type P. C. gilts sired by Leonard's Liberator and Orange Clansman and fall Pigs at bargain Prices. E. R. LEONARD, St. Louis, Mich.

BIG TYPE POLANDS

A few choice boars of March farrow sired by Emancipator 2nd. Double treated for cholera, and ready for service. Come over, or write.
WESLEY HILE, Ionia, Mich.

BOARS for less than half price as long as they last, best of breeds that make good. Write your wants.
M. M. PATRICK, Gd. Ledge, Mich.

Large Type Polands. Spring boars and gilts, sired by Michigan Liberator and Big Checkers. Immured by double treatment. Also fall pigs both sexes.
George F. Aldrich, R. 6, Ionia, Michigan

Large Type Poland Chinas
Spring boars sired by Foxy Clansman 1922 Grand Champion and by F's Clansman 1920 Grand Champion Mich. State Fair. Also two choice 1921 fall boars. All immune by double treatment. Come and see them or write. A. A. FELDAMP, Manchester, Mich.

Boars at Half Price From Mich. Pioneer herd of Big Type Poland Chinas We have been breeding them big for 30 years. Our hogs represent the blood lines of Giant Buster, The Clansman, Liberator, The Yankee, Big Bob, etc. Write for what you want.
JNO. C. BUTLER, Portland, Mich.

Big Type Poland China spring boars ready for service weighing over 200 lbs. Sired by Hoyer's Liberator 1st prize Jr. yearling at Tusculum, Sanilac and Saginaw fairs. Also fall pigs at \$15 each. Shipped on approval.
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L. T. Poland Chinas spring boars and reasonable prices, also fall, pigs either sex of popular blood lines. Aberdeen-Angus bulls, Heifers and Cows that are show winners. Write or come.
E. A. CLARK, R. 3, St. Louis, Mich.

Choice Boars ready for service, Priced to sell. Also sows and gilts.
C. E. GARNANT, Eaton Rapids, Mich.

CLASSIFIED ADVERTISING

This classified advertising department is established for the convenience of Michigan farmers. Small advertisements bring best results under classified headings. Try it for want ads and for advertising miscellaneous articles for sale or exchange. Poultry advertising will be run in this department at classified rates, or in display columns at commercial rates.

Rates 8 cents a word, each insertion, on orders for less than four insertions; for four or more consecutive insertions 6 cents a word. Count as a word each abbreviation, initial or number. No display type or illustrations admitted. Remittances must accompany order. Real estate and live stock advertising have separate departments and are not accepted as classified. Minimum charge, 10 words.

Rates in Effect October 7, 1922

Words	One time	Four times	Words	One time	Four times
10.....	\$0.80	\$2.40	26.....	\$2.08	\$6.24
11.....	.88	2.64	27.....	2.16	6.48
12.....	.96	2.88	28.....	2.24	6.72
13.....	1.04	3.12	29.....	2.32	6.96
14.....	1.12	3.36	30.....	2.40	7.20
15.....	1.20	3.60	31.....	2.48	7.44
16.....	1.28	3.84	32.....	2.56	7.68
17.....	1.36	4.08	33.....	2.64	7.92
18.....	1.44	4.32	34.....	2.72	8.16
19.....	1.52	4.56	35.....	2.80	8.40
20.....	1.60	4.80	36.....	2.88	8.64
21.....	1.68	5.04	37.....	2.96	8.88
22.....	1.76	5.28	38.....	3.04	9.12
23.....	1.84	5.52	39.....	3.12	9.36
24.....	1.92	5.76	40.....	3.20	9.60
25.....	2.00	6.00	41.....	3.28	9.84

Special Notice All advertising copy discontinuance orders or change of copy intended for the Classified Department must reach this office ten days in advance of publication date.

MISCELLANEOUS

TO INTRODUCE our old mellow sweet flavored Kentucky smoking and chewing tobacco will sell you 10 pounds of very best mild smoking for \$1.65 or 10 pounds of very best mild chewing for \$3.25 and give free with each order for 10 pounds a genuine \$1.00 French Briar Pipe. Postage extra. Pay on delivery. For \$1.00 with order will send prepaid 3 pounds Burley Smoking, or 4 pounds Best Mild Smoking or 2 1/2 pounds Chewing. Sample pound smoking 30c. Sample 1 and chewing, 40c prepaid by mail. 100-Extra Fine Cigars prepaid for \$5.95. Kentucky Tobacco Company, Owenboro, Ky.

TOBACCO—Select 3-year-old Kentucky leaf. Pay for tobacco and postage when received. 5 lbs. smoking \$1.25; 5 lbs. chewing \$1.50. Farmer's Union, Hawesville, Ky.

HOMESPUN TOBACCO. Chewing: 5 pounds, \$1.75; 10 pounds, \$3; 20 pounds, \$5. Smoking: 5 pounds, \$1.25; 10 pounds, \$2; 20 pounds, \$3.50. Send no money, pay when received. Co-operative Tobacco Growers, Paducah, Kentucky.

NATURAL LEAF TOBACCO. Chewing: 5 pounds, \$1.75; 10 pounds, \$3; 20 pounds, \$5. Smoking: 5 pounds, \$1.25; 10 pounds, \$2. Pay when received. Tobacco Growers' Union, Paducah, Ky.

NATURE BRAND HONEY—Delicious, wholesome. Direct from the bee farm. Five pounds \$1.00, postpaid. Elmer Luebeck, Knox, Indiana.

WANTED to buy horseradish in large quantities. State price in first letter. Joe Milnarits, 8927 Ketter St., Detroit, Mich.

WANTED to buy choice and No. 1 Timothy, Clover and Alfalfa Hay. Car lots. Broadwater Feed Co., Appalachia, Va.

COLLIE PUPPIES Natural workers. Plenty of grit. Pedigrees furnished. Write for descriptive list and special December offer. Clara V. Dorman, Snover, Mich.

FORDSON TRACTOR. Will buy slightly used tractor in good condition. W. S. J., Mich. Farmer.

Francisco Farm Poland Chinas

Still have a few of those good young boars ready for service. Also Top Notch fall pigs either sex. Both pigs and prices are right.
P. P. POPE, Mt. Pleasant, Mich.

Walnut Alley Big Type P. C. gilts now ready to ship they are bred to the best boar I have seen this fall.
A. D. GREGORY, R. 3, Ionia, Mich.

Big Type Poland Chinas

G. A. BAUMGARDNER, R. 2, Middleville, Mich.

Hampshires spring boars and bred gilts from 25 sows to select from. Place your order now or you may be too late, 10th year.
JOHN W. SNYDER, R. 4, St. Johns, Mich.

Hampshire Bred gilts \$20, \$25; bred sows \$30. \$50. Guarantee safe delivery, registered free.
C. F. LUCKHARD, Bach, Mich.

SHEEP

Kope-Kon Farms

Offers the best in yearling Shropshires of course. Also choice of the best lot of Ram Lambs you will see this year. Follow M 29.

S. L. Wing, Coldwater, Mich.

SHROPSHIRE RAMS Come to the farm or write
Dan Booher, R. 4, Evart, Mich.

Strong robust one and two yr. old Wool-Mutton Shropshire rams priced right. Tell us what you want.
Maplewood Stock Farm, Allegan, Mich.

For Sale Oxford rams and ewes all ages, guaranteed breeders. Write or call at farm.
Geo. T. Abbott, Palms, Mich., Tel. Deckerville 78-3.

Cotswolds 50 head Rams and Ewes all ages, no better flock in State. Write or phone.
A. M. BORTEL, Britton, Mich. Phone no. 706.

REG. DELAINE RAMS

At Farmer Prices. Write or Come.
CALHOUN BROS., Bronson, Mich.

Reg. Hampshire ewes. Also ram lambs. Best of breeding. Priced to sell.
W. W. CASLER, Ovid, Mich.

1400 Breeding Ewes FOR SALE

in lots of 50 or more, black faced, from 1 to 4 yrs old; no broken mouths, in good condition, located 22 miles S. W. of Detroit on Detroit and Toledo electric and Dixie Highway. Telegraph address, Rockwood.
Almond B. Chapman, So. Rockwood, Mich.

POULTRY

RHODE ISLAND REDS, R. C. Large fancy cockerels and pullets at \$3 each. Burt Sisson, Imlay City, Mich.

BABY CHICKS. Save \$3 to \$10 per 100 by placing order now. Pullets lay at 4 months age. Write for free catalog. D. T. Farrow Chickeries, Successors Farrow-Hirsch Company, Peoria, Illinois.

FOR SALE—Pure bred Buff Orpington Cockerels, \$3 each and you pay the express charges. Mrs. Grant Salway, Jonesville, Mich.

FOR SALE single comb Ancona cockerels, Sheppard strain, also S. C. Rhode Island Red Cockerels at \$1.50 to \$3.00. Will C. Hrisinske, Imlay City, Mich.

BUFF ORPINGTONS, Young's White Leghorns Barred Rocks, Guineas, Pekins. Fenner Bailey, Montgomery, Mich.

ORPINGTON'S White and Black Cockerels and Pullets. Howard Luther, Fairgrove, Mich.

EXTRA fine utility Single Comb White Leghorn Cockerels. \$1.75 each. Harry Franks, St. Louis, Mich.

PUREBRED Light Brahma Cockerels. Will Raymond, Bailey, Mich.

PUREBRED Brown Chinese ganders \$5. Fawn and White Runner drakes \$2. Black Minorca and Barrow White Leghorn cockerels \$2. Wm. H. Higgins, Vassar, Mich.

SILVER Spangled Hamburg Cockerels at \$2.00, \$3.00 and \$5.00 each. J. G. Philpott, Port Huron, Mich. R. F. D. 1, Box 44.

AFRICAN GESE birds of quality can furnish pairs unrelated \$5 each, also S. C. Rhode Island Red cockerels. Harry A. Snyder, R. 2, Byron Center, Mich.

68 VARIETIES Fine pure bred chickens, ducks, geese, turkeys, stock eggs, chicks. Large catalog 5c. A. A. ZIEMER, Austin, Minn.

TURKEYS. Mammoth Bronze Beauties. Mrs. Eugene Ramsdell, Hanover, Mich.

GIANT Bronze Turkeys, pure bred, large type; toms \$8.00, hens \$6.00. E. J. Love, Bloomingdale, Michigan, R. 1.

GIANT BRONZE TURKEYS. Vigorous purebred stock. Best strains, large type, fine coloring. Unrelated stock. Write Mrs. Perry Stebbins, Saranac, Mich.

200 GIANT S. C. Black Minorca cockerels none better \$2.25 each. Mike Schaefer, R. 1, Essexville, Mich.

GESE—Toulouse, African, Emden. DUCKS—Pekin, Rouen, Runner, Muscovy. Price reasonable. John Hass, Bettendorf, Iowa.

PEAFOWLS. Pheasants, Bantams, Pigeons, Guinea Pigs. John Hass, Bettendorf, Iowa.

PEKIN DUCKS. White Leghorn, Wyandotte, Rock Cockerels \$2.00. Liberty Smith, Caro, Mich.

LATEST MARKET REPORTS

GRAIN QUOTATIONS

Tuesday, December 12.

Wheat.

Detroit.—No. 2 red at \$1.39; No. 2 mixed \$1.37; No. 2 white \$1.37.
Chicago.—No. 2 hard \$1.24@1.24½;
December 1.22%.

Toledo.—Cash \$1.38½.

Corn.

Detroit.—Cash No. 2, 79c; No. 3 yellow 78c.

Chicago.—No. 2 mixed 73¼@74¼;
No. 2 yellow 74¼c.

Oats.

Detroit.—Cash No. 2 white at 51¼c;
No. 3, 50c.

Chicago.—No. 2 white 46¼@48¼c;
No. 3 white 44½@46c.

Beans.

Detroit.—Immediate and prompt shipment \$6.85.

New York.—Choice pea at \$8@8.25;
red kidney \$7.75.

Chicago.—Michigan choice hand-picked \$8.50; red kidneys \$9.50.

Buckwheat.

Clean milling grain \$2.35 per cwt.

Rye

Detroit.—Cash No. 2, 91½c.

Chicago.—89½@90c.

Toledo.—Cash 91c.

Seeds.

Detroit.—Prime red clover cash at \$13.60; March \$13.80; alsike at \$10.75; timothy \$3.40.

Toledo.—Prime red clover cash at \$13.85; alsike \$11; timothy \$3.50.

Hay.

Detroit.—No. 1 timothy \$16.50@17; standard \$16@16.50; light mixed \$16@16.50; No. 2 timothy \$14@15; No. 1 clover \$14.50@15; rye straw \$11.50@12; wheat and oat straw \$11@11.50 per ton in carlots.

Feeds.

Bran \$32@33; standard middlings at \$32; fine do \$34; cracked corn \$35.50; coarse cornmeal \$32.50@33; chop at \$28.50 per ton in 100-lb sacks.

Fruit.

Apples.—Jonathans \$5.50@6 per bbl; Wageners \$4.50; Greenings \$5 per bbl; Kings \$5; Northern Spies \$5@6; Baldwins \$4.50@5; cranberries, boxes \$6; late reds \$5.50@5.75.

WHEAT

The wheat market has been swinging over a narrow range recently but advanced at the close of last week to the highest point of the season. The upturn was ascribed to the President's recommendations to congress with reference to agricultural relief and a statement by Julius Barnes, former president of the U. S. Grain Buyers' Corporation, that Europe may face a most acute food situation next spring and that credits enabling foreigners to make moderate purchases of grains would cause an immediate and pronounced advance. Primary receipts are holding up well, although there is no accumulation. The usual dullness at this season has overspread the flour trade but mills are still grinding at a high rate on old orders. Moderate weather has delayed the close of lake navigation and permitted a heavy movement of Canadian to eastern lake ports in the last ten days while large quantities have been cleared for Europe. An enormous quantity of Canadian wheat is in transit all the way from western Canada to the Atlantic seaboard. Private reports show a loss of eight to ten per cent in the acreage of wheat and a condition about five per cent below the average. The crop outlook as a whole is slightly less favorable than last year but is not apt to become a market factor before spring.

CORN

In the five weeks ending December 2, primary markets received 27,923,000 bushels of corn against 19,938,000 bushels in the same period last year and a ten-year average of 21,767,000 bushels. Taking changes in the visible supply into account, distribution in this period was 25,938,000 bushels this year against 23,355,000 bushels last year and a ten-year average of 22,712,000 bushels. Demand from the west and south seem to have subsided slightly in the last few days and country offerings to primary markets have increased. A larger movement is expected later, but in view of the breadth of

domestic demand including that from feeders, declines in price are not apt to be extensive.

OATS

In the first eighteen weeks of the oats crop year, a total of 101,019,000 bushels disappeared into consumptive channels against 62,811,000 bushels last year and a ten-year average of 139,820,000 bushels. The decline in distribution as compared with the ten-year average has been more than offset by a falling off in primary receipts in this period.

SEEDS

Timothy and cloverseed prices have been well maintained recently. Most of the surplus, especially of timothy, has already been sold by growers and the remainder is in strong hands and is being held for higher prices later on.

FEEDS

Feed markets have weakened, especially for high protein meals. The demand from consuming sections is not brisk owing to milk weather and to a less profitable ratio of feed prices to prices of live stock and live stock products. Offerings of most feeds are liberal with shipments in transit quoted below deferred deliveries.

HAY

Heavier country loadings of hay and increased receipts as a result of a better car situation have caused an easier hay market. No pronounced decline is probable.

POULTRY AND EGGS

Egg prices were well maintained last week as the demand is broad owing to the holiday season and receipts have not expanded materially. Storage holdings on December 1, according to the preliminary report were 3,

258,000 cases, which is a smaller total than in 1919 but compares with a five-year average of 2,517,000 cases. The reduction in November was the largest on record. If the reduction in December is equally heavy, the excessive holdings above the average will be completely worked off by January 1. Under the circumstances prices may hold present levels and possibly work a little higher during the next month as no great increase in receipts is expected in that time. Poultry prices are holding fairly well as receipts are not exceptionally heavy and the consumptive demand is excellent. Storage holdings increased less than usual during November.

Chicago.—Eggs, checks at 23@25c; fresh firsts 49@52c; ordinary firsts at 42@45c. Live poultry, hens at 20c; springers 19c; roosters 12¼c; ducks 18c; geese 19c; turkeys 25c.

Detroit.—Eggs, fresh candled and graded 50@53c; storage 26@30c. Live poultry, heavy springers 21c; light do 15c; heavy hens 21@22c; light hens 14c; roosters 15c; geese 22c; ducks 20c; turkeys 30@41c.

BUTTER

Butter prices advanced from one-half to two cents a pound on the leading markets last week and the situation looks stronger than it did a week ago. Purchases of foreign butter were much smaller than at first reported and an advance in the Danish butter market, together with higher Danish exchange, is likely to check further sales from that quarter for the time being at least. While a little Canadian butter is coming to New York and Chicago right along, pressure from New Zealand butter which is most apt to be a serious factor, has not been noticeable. Cold storage holdings in the United States on December 1, according to

the preliminary report, was 47,805,000 pounds, verifying the indications of the four leading markets. They are the smallest on record on that date and only two-thirds as large as the average. Butter consumption continues broad, while production is light and if pressure from foreign butter does not develop, further advances may take place.

Prices on 92-score fresh butter were as follows: Chicago 55¼c; New York 54¼c. In Detroit fresh creamery in tubs sells at 45@48c.

POTATOES

Potato prices were practically steady last week although some weakness was evident at shipping points. Total shipments from producing districts are declining but are up to the average for this season of the year. Unloads at consuming markets have not declined so much and are rather heavy. Technically, the market appears to be getting in shape for a moderate advance. Northern whites are quoted at 70c@1.05 per 100 pounds sacked, in leading cities.

APPLES

The apple markets were weak for barreled stock in the last few days but steady on boxed apples. Shipments are of approximately average size. Greening and Baldwin apples are quoted at \$4@5 on city markets and \$4 a barrel f. o. b. the New York shipping points.

BEANS

The bean market came to life again late last week after a period of dullness which threatened to extend through the rest of the year. Choice white hand-picked stock reached \$7@7.10 per 100 pounds f. o. b. Michigan shipping points. Red kidneys were quoted at \$7.75@7.85. The movement from farms has not broadened and demand has improved unexpectedly.

WOOL

The domestic wool market is quiet, with only limited transactions between manufacturers and dealers. Manufacturers have moderate stocks but with the 1923 clip four or five months away and the opening of the heavy weight manufacturing season shortly after the first of the year, the situation does not favor lower prices. More interest is being shown in medium and coarse wools than in fine wools. The London auction continues with prices on a par with the opening advance with some American buying reported. Declines of five to ten per cent occurred at Brisbane, Australia, last week, traceable to the absence of British buyers.

DETROIT CITY MARKET

Poultry, ducks and geese are in good demand. Apples are also moving freely. Fresh eggs are firm and higher. Potatoes, onions, carrots, pumpkins, squash and turnips are in greater supply than demand. Apples sell for 75c @ \$2 per bu; cabbage 30@75c; carrots 30@50c per dozen bunches; eggs 75c; dry onions \$1@2 per bushel; potatoes 50@60c; poultry, live 22@24c; geese 28@30c; pumpkins 75c@1; squash 75c@1; hogs 13c per pound.

GRAND RAPIDS

The heavy receipts of eggs last week and weaker outside market caused values to crumble on Grand Rapids markets, prices falling 10 cents a dozen in seven days. Dealers were decidedly bearish, remember the heavy losses they took a year ago this week when prices fell 11 cents a dozen in two days. Houses were keeping their stocks well in hand this week and should history again repeat, they will not lose heavily. Consumption is somewhat retarded by failure of retailers to slash their prices to correspond with the reduction to producers. Poultry buyers were planning to enter the field for turkeys late this week but they refused to state early this week at what prices they would begin bidding.

COMING LIVE STOCK SALES.

Shorthorns and O. I. C. Hogs.—January 23, Claxton Brothers & Dieck, Swartz Creek, Mich.
Holsteins.—December 22, Wolverine Farm, H. G. Booth, Gladwin, Mich.

Live Stock Market Service

Wednesday, December 13.

DETROIT

Cattle.

Receipts 420. In between cows slow, others steady.
Best steers \$ 8.00@ 9.00
Handyweight butchers .. 7.25@ 7.75
Mixed steers and heifers 6.50@ 7.50
Handy light butchers..... 6.00@ 7.00
Light butchers 5.00@ 6.00
Best cows 5.00@ 5.50
Butcher cows 3.50@ 4.00
Common cows 2.50@ 3.00
Canners 2.25@ 2.75
Choice bulls 4.50@ 6.00
Bologna bulls 4.50@ 5.00
Stock bulls 3.50@ 4.50
Feeders 6.50@ 7.50
Stockers 5.00@ 6.00
Milkers and springers.... \$ 40@80.00

Veal Calves.

Receipts 510. Market steady.
Best \$12.00@12.50
Others 4.00@11.00

Sheep and Lambs.

Receipts 3,760. Market is steady to 25c higher.
Best lambs \$15.00@15.25
Fair lambs 12.50@14.00
Light to common 9.00@10.50
Fair to good sheep 6.50@ 7.50
Culls and common 3.00@ 4.50

Hogs.

Receipts 3,200. Market steady.
Mixed hogs \$ 8.50
Roughs 7.25
Pigs and lights 8.60
Heavies 8.00@ 8.50

CHICAGO

Hogs.

Estimated receipts today are 35,000; holdover 11,800. Market steady to 10c lower; average Tuesday was \$8.21. Bulk of sales \$8@8.25; tops at \$8.30; heavy 250 lbs up \$8.10@8.25; medium 800 to 250 lbs \$8.20@8.30; light 150 to 200 to 250 lbs \$8.20@8.30; heavy packing sows 250 lbs up \$7.60@7.90; packing sows 200 lbs up \$7.25@7.65; pigs 130 lbs down \$8@8.25.

Cattle.

Estimated receipts today are 14,000. Market slow and steady. Beef steers medium and heavy weight 1100 lbs up

\$12@13.50; do medium and good \$7.50 @12; do common at \$5.75@7.50; light weight 1100 lbs down \$9.85@13; do common and medium at \$5.50@9.85; butcher cattle heifers \$4.50@11; cows \$3.25@8.25; bulls bologna and beef at \$3.40@6.50; canners and cutters cows and heifers at \$2.40@3.35; do canner steers \$3@3.75; veal calves light and handyweight \$8.75@10; feeder steers \$5.35@8; stocker steers at \$4.50@8; stocker cows and heifers \$3@5.25.

Sheep and Lambs.

Estimated receipts today are 15,000. Killing closed steady; feeders are 25c higher. Lambs 84 lbs down \$13.25@15.60; do culls and common \$9.25@13; feeder lambs \$12.75@15; ewes \$4.75@7.75; ewes cull and common \$2.50@5; yearling wethers \$9.50@13.25.

BUFFALO

Cattle.

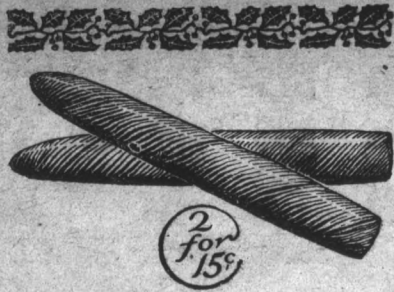
Receipts 10 cars. Market is slow. Choice to prime shipping steers, 1,400 lbs and up \$11@11.50; good to choice shipping steers at \$9.50@10.50; heavy grass steers, good quality at \$7.25@8; medium to good \$7.25@7.75; fat coarse \$7@7.50; light native yearlings fancy quality \$10.50@11.50; medium to good \$8.25@9.25; best handy steers \$7.50@8; plain \$6.50@7; handy steers and heifers \$6.50@7.50; western heifers at \$6.50@7; light Michigan butchering heifers \$6@6.50; best fat cows \$4.50@5.50; medium to good \$3.50@4; cutters \$2.50@3; canners good weight \$1.75@2; common and old rims at \$1@1.50; best heavy bulls at \$4.75@5.50; heavy bologna bulls \$4@4.50; common bulls \$3@3.50; best feeders 700 to 800 lbs \$6.50@7.25; medium feeders \$6@6.50; stockers good \$5.50@6; light common \$4@5; best milkers and springers \$6@100; common and medium \$35@50. Calves, tops at \$12.50.

Hogs.

Receipts 40 cars. Market is lower. Heavy \$8.75@8.85; yorkers \$8.90@9; pigs \$9.10@9.25.

Sheep and Lambs.

Receipts 10 cars. Market is steady. Top lambs \$15.50; heavy lambs \$13.50; yearlings \$9@13; wethers at \$8@8.50; ewes \$6.50@7.50.



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HEMMETER'S CHAMPION CIGARS

In Christmas boxes of 25.

A mild satisfying smoke—
Good old fashioned tobacco
—Strictly hand-made.

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The Hemmeter Cigar Co., Detroit

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One of the best paying and most dignified businesses you can get in, or put your boy in nowadays, is flour milling. On a comparatively small investment, and without any previous milling experience you can own and run the wonderful "Midget" Marvel Mill and make good money from the start.

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Only a small house and small power necessary. There's more profit in this high class business than anything you can get into on the same capital, because "It makes a Better Barrel of Flour Cheaper." Saves the high freight on wheat out and flour and feed in. "The first eight months I made a net profit of over \$8000," says A. H. Ling, Jetmore, Kan. "My profits, from the 'Midget' Marvel average right around \$40 per day." Chas. M. McKinney, Cooper, Tex.: "Was \$6000 in debt when I bought my 25 barrel 'Midget,' and the little mill pulled me clean out of the hole long before I bought my 40 barrel mill from you," says M. A. Kamm, Oxford, Mich.
Capacities: 15, 25, 50 and 100 barrels of fine roller patent flour a day as any mill can make.
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A new oil lamp that gives an amazingly brilliant, soft, white light, even better than gas or electricity, has been tested by the U. S. Government and 35 leading universities and found to be superior to 10 ordinary oil lamps. It burns without odor, smoke or noise—no pumping up, is simple, clean, safe. Burns 94% air and 6% common kerosene (coal oil). The inventor is offering to send a lamp on 10 days' FREE trial, or even to give one FREE to the first user in each locality who will help introduce it. Write today for full particulars. Also ask us to explain how you can get the agency and without experience or money make \$250 to \$500 per month. Address
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also grape vines, berry bushes roses and shrubs, for spring delivery. Our stock is fast selling, healthy and true to name. Write now for our handsome color catalog and liberal Agency proposition.
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MEN WANTED to sell dependable fruit trees and shrubbery. Big demand. Complete cooperation. Commission paid weekly. Write for terms.
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Strawberry Plants for sale. 15 standard varieties. Sprites right. 1000 Dunlap \$2.50; Gibson \$4.50; the Wonderful Howard No. 17, \$3; Raspberries, Grape Plants, Asparagus, Currant and Gooseberries. Send for price list. Compare prices with others. Order now.
Sawyer Nurseries, Box 108, Sawyer, Mich.

Michigan Certified Late Petoskeys
Potato Seed. Irvin Cole & Sons, Alanson, Mich.

THE 1922 INTERNATIONAL.

(Continued from page 637).
enth for single pens of the latter type and also seventh in five barrows, any age, get of one sire.

Chester Whites.

Representatives of this breed were shown in generous numbers, there being 192 entries. Of these Michigan breeders showed forty-six head, A. J. Adams, of Litchfield, and the M. A. C. being the exhibitors. In the breeding classes, Mr. Adams was awarded ten places, of which one was a second, two were thirds, two were fourths and five were fifths. The college had three places in the fat classes—one third, one fourth, and one sixth.

Berkshires.

In this section of the hog show there were just ninety-nine entries. Two Michigan exhibitors were prominent in the winnings. Parker Brothers, of Niles, Michigan, winning six firsts, five seconds, two thirds, two fourth awards and senior and grand championships. The M. A. C. was awarded two firsts, six seconds and two sixths in the fat classes.

W. S. Adams, Litchfield, took eight ribbons in the Tamworth division.

In the fat Tamworth classes, the Michigan Agricultural College was awarded two firsts, two seconds, two thirds, champion barrow and champion pen of barrows.

THE SHEEP SHOW.

The prevailing and prospectively higher prices for mutton and wool has perhaps increased interest in this branch of the live stock business and made the sheep exposition one of the outstanding features of the International. The best flocks from Canada and the states were out for the honors. In all, 1,179 entries were listed.

The winnings were quite generally distributed. Colleges, however, dominated the show, taking eight of the eleven championships. In the final reckoning our own M. A. C. was a good runner-up. In the Rambouillet classes she took one first, one third, three fourths and a fifth. Her big victory was, however, in the fat Hampshire classes, where three firsts, two seconds, four thirds, two fourths and a fifth went to the East Lansing institution. In fat Cottswold classes she brought home two thirds and a fourth. Rolling View Farm, of Cass City, was awarded two fourths in the Leicester division, six on Dorsets and two on Oxfords, while E. G. Read, of Richland, Michigan, was awarded first on a carload of range sheep.

MICHIGAN APPLE AND POTATO SHOW.

(Continued from page 444).

The sweepstakes in the potato show went to Brady Brothers, of Wolverine. The first prize in the county potato exhibits went to Cheboygan county. Cooperation Association prize went to Boyne City Cooperative Association, and the prize for boys' and girls' club exhibit was won by the Sunnyside Potato Club.

A large number of equipment insecticide and fertilizer exhibits were made. Some very instructive exhibits by the Agricultural College, the State Department of Agriculture and the State Farm Bureau added to the educational value of the show. In one corner of the potato part of the show, baked Chief Petoskey potatoes were handed out to the visitors. In another place the home economics department of the college showed what could be done with Michigan apples and gave samples of carded apples and various flavored apple jellies.

In connection with this show there was a high school judging team contest in which eight teams were entered. The team from the St. Johns High School, consisting of Leonard Horner, Morris Stead, and Howard Brant, won

the silver loving cup given by the Kent Storage Company. Arthur Lewis, of Benton Harbor, got the highest individual score for which he was awarded a life membership in the Michigan Horticultural Society.

The show as a whole has probably demonstrated more than any other exhibition, that Michigan can grow quality products which in appearance equal those of any other part of the country, and in flavor surpass most of them.

Make \$13 More Per Cow

Free Book for Dairy Farmers
Tells How to Cut Out Waste;
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Do you know that the manure produced by one cow in twelve months contains fertilizing elements valued at \$39? And do you know that one-third, or \$13 of this amount is lost in the course of a year through improper handling? By providing a simple easy-to-build pit outside the barn, this loss can be prevented.



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Make \$60 to \$100 a Week
Introducing this wonderful new lamp. Gives soft, brilliant light; restful to eyes; ideal illumination. Burns Kerosene or Gasoline. Clean, odorless, economical. Burns 90% air, 10% fuel. Absolutely safe. Lights with match. 100 times brighter than wick lamps. Patented. Greatest improvement of age. Table lamps, hanging lamps, lanterns. Work all or spare time. You simply take orders. We deliver by Parcel Post and do collecting. Commissions paid same day you take orders. No experience necessary. Get started at once. Big season now on. Write today for catalog and special agents offer.
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Dandy Fully Equipped 40 Acres, \$1000 Cash Down.

On improved road 3 miles to railroad depot, stores, milk station, etc. 37 miles from Ford factory; 37 acres rich loamy tillage just rolling enough for good drainage, 3 acres woodland, woven wire fences; fruit home use; 2 story 8-room house, painted; fine double cellar, screened porch, maple shade, mail and telephone service, near neighbors, 42 ft. basement barn, painted ties 6 head, large tile silo, other buildings. Aged owner retiring, includes 2 good horses, 2 cows, 2 hogs, 25 head, splendid farm equipment, hay, corn fodder, ensilage, 100 bus. oats, 25 bus. potatoes, 75 bus. corn, 3 acres growing wheat, 5 acres new seedling. Price \$5000—\$1000 cash down. I. S. Bird, Holly, Mich.

For Sale, Rent

or may exchange 680 acres fine alfalfa, general and stock farm northeastern Mississippi. Black lime soil in alfalfa belt. Fenced and ditched. Will consider reasonable cash payment, balance to suit, or may consider smaller clear farm with personal property in exchange. State what you have in mind. Address F. C. Browne, 4160 Drexel Boul' Chicago, Ill.

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No agents, no commission; interested only in getting home-builders on the project. Longest growing season in the northwest. Gardens and fruits thrive; schools, highways and railroads the best. Junction Snake and Columbia rivers. Write for terms and folder. Address Burbank Irrigation District No. 4, Burbank, Washington.

SOUTHEAST MISSOURI—

"WHERE EVERYTHING GROWS"
Mild climate, long growing season. Alluvial black soil—ideal livestock country. All kinds of feed and cotton seed meal produced at home. Southeast Missouri Agricultural Bureau, Dept. H, Union Sta., St. Louis, Mo.

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Write for tags and quotations.

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to Boston by express, and get good prices and prompt returns. Feed heavy before shipping. fill two cans with feed. do not crowd.
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Reliable Company wants to develop capable salesman for Michigan, Ohio and Indiana territory. Prefer up-to-date farmers, experienced selling fertilizer locally. Permanent salary and expense position, and splendid future if you "make good". Address immediately, giving full particulars and references. Box W-12 care Michigan Farmer.

Homespun Smoking Tobacco Mild and Mel-low—10 lbs. \$1.75; 20 lbs. \$3.00; delivery guaranteed. We furnish free recipe for preparing. Smoking Tobacco Exchange, Sedalia, Ky.

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AIREDALE PUPS. Sired by son of Tip Top. From registered stock. Make fine watchdogs for farm homes and poultry. Males, \$15. Fe. males, \$10. R. G. Kirby, R. 1, East Lansing, Mich.

Fox Hounds, Rabbit and Skunk dogs. All aces. Coon Hound pups.
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CENTRAL LAND BUREAU,

Want to hear from party having farm for sale. Give particulars and lowest price.
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320 Acre Improved Stock Farm. \$55.00 per acre Bargain. Write for description and list.
MANSFIELD LAND CO., Ottawa, Kansas

For Rent Small farm for trucking, poultry, and dairying. Close to good market.
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Wanted To hear from owner of land for sale
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For Orchard and Fruit Lands—Benzie, winning county at show. Address Sanders, Beulah, Mich.

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22% Cut In Price

MELOTTE, the Edison of Europe, manufacturer of the greatest Cream Separator the world has ever known, announces a sweeping reduction in prices. Labor conditions in general together with tremendous re-building and re-organizing efforts put forth by this big man of Belgium has resulted in cutting production costs to the bone.

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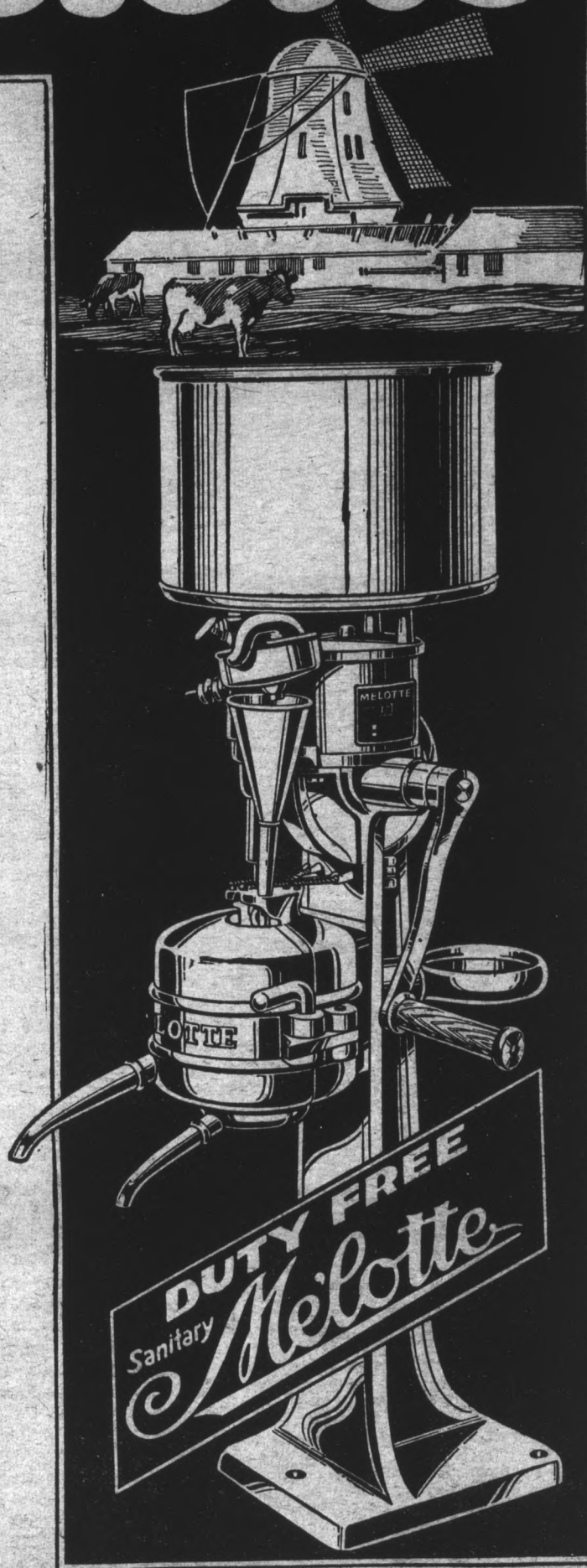
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