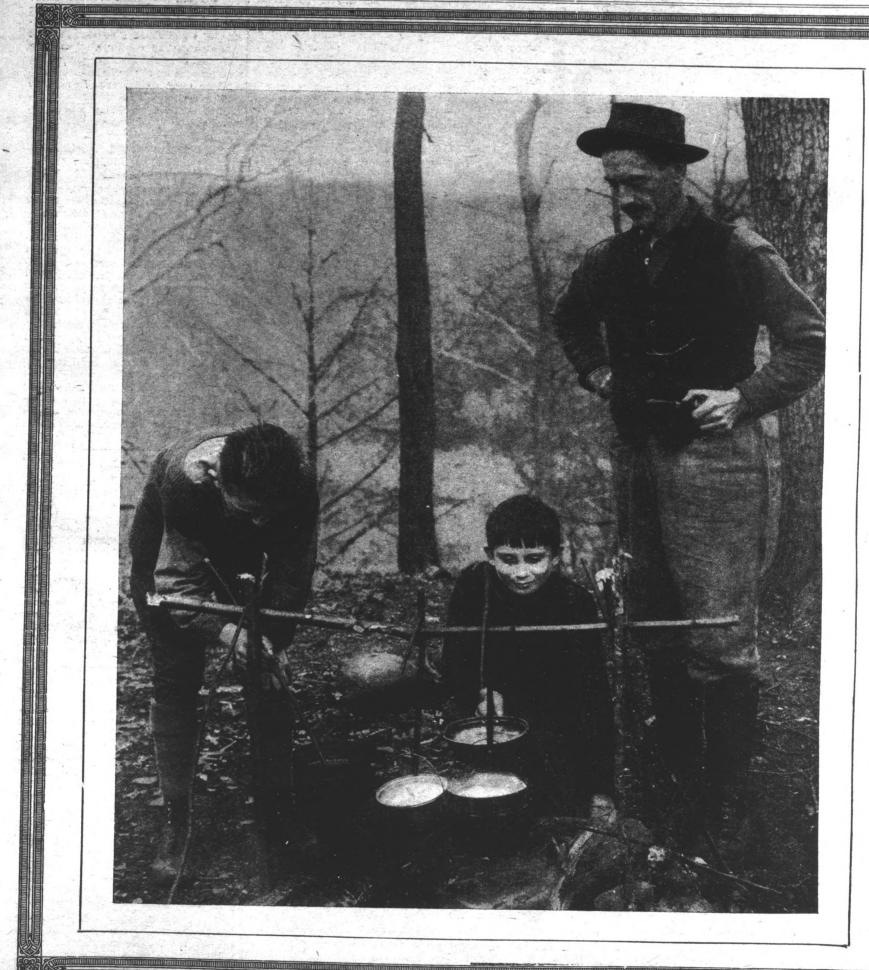


VOL. CLXIV. No. 13 Whole Number 4655 DETROIT, MICH., SATURDAY, MARCH 28, 1925

ONE YEAR \$1.00 FIVE YEARS \$3.00



The World's Largest Builders of Six-Cylinder Automobiles



When better automobiles are built, Buick will build them

Chivered to you Free for 30 days trial on approval. Choice of 44 Styles, colors and sizes of famous Ranger Bicycles, Express prepaid, Bicycles \$21.60 and up. 55 a Month if desired. Boys and the styles of the styl

SEED CORN

Will yours grow and mature? If not, I have a good supply that was carefully gathered and dried last fall. This spring it tested 90% string germination. I may be able to supply you if you don't put it off too long.

Ralph Arbogast, Union City, Michigan

Goncord Grape vines 1 yr. No. 1 \$25 per plants and Shrubbery. Send for free catalogue. FEATHER'S NURSERIES, Baroda, Mich.

TRY a Michigan Farmer Classified Liner. They bring results.

Lewis' Lye

For Better Homemade Soap

For cleaning:
Dairy utensils
Poultry houses
Garages
Hog houses
Outside toilets
and
50 other uses

FOR firm, pure soap this spring join the thousands of housewives who are now using Lewis' Lye. It is always of highest quality and packed in the safety friction top can. Those who have never used this product have a surprise in store, not only for its advantages in soapmaking but its 50 other uses on the farm and in the home. Send this ad for a free copy of "The Truth Your arighted the safety and the safety are in the safety of the safety are in the safety and the safety are in the safety and the safety are safety as a safety are safety as a safety are safety as a safety as a

About A Lye." Your neighborhood grocer who aims to give service will be pleased to order Lewis' Lye for you.

Pennsylvania Salt Mfg. Co.

Dept. 0 Philadelphia, Pa.

Soapmaker Supreme

Washington News

OUTLOOK IS GOOD.

THE world outlook is good, based on agricultural' production forecasts. The crop prospects are especially favorable in the northern hemisphere countries except Russia. Reports to the department of agriculture show that the acreage of winter wheat in sixteen countries is 3.3 per cent above last year, which, with favorable weather conditions, should yield a crop considerably above the average. The economic outlook in Europe, outside of Russia, is steadily improving.

WHEAT SLUMP MAY AFFECT THE ACREAGE.

THE recent slump in wheat prices will undoubtedly have the effect of cutting down the acreage of spring sown wheat. In fact, it is the conclusion of some market specialists that if the price had continued above the two dollar mark through the wheat seeding season, it would have encouraged so large an increase in acreage in the spring wheat states that the market next fall would have been demoralized by the over-production.

RESTRICTS CONGRESSIONAL IN-VESTIGATIONS.

THE Supreme Court has made a decision relating to the powers of congress in conducting investigations, which is of considerable interest to agricultural interests that are demanding investigations of various interests and combines. The court holds in effect that the Federal Trade Commission, even though acting under a senate resolution, cannot compel business concerns to permit access to books and records in an inquiry designed to provide data for legislative consideration. The court affirmed a decision of the federal district court at Baltimore denying the commission access to the records of several grain exporting firms, which it had sought in an investigation to determine the causes operating in foreign markets to affect the prices of grain.

BIG PACKERS STILL IN CONTROL.

THE five big meat packers have disposed of only 22.7 per cent of the par value of their holdings in the stock yards, although the packers' consent degree, requiring, them to divest themselves of ownership of the stock yards, was entered five years ago. Armour & Company, and Swift & Company are the principal packers still holding large interests in the stock yards. This information is brought out in a report of the federal trade commission made in compliance with a senate resolution.

FORESTRY WEEK.

T is planned by the authorities and organizations in Washington that are promoting forestry to make American Forestry Week, from April 27 to May 2, the beginning of a great nationwide movement to conserve and extend the forests of this country. The department of agriculture will place special emphasis on the importance of forestry to the farmer and small land owner.

WORLD COURT FAVORED.

THE emphasis placed upon the world court proposal by the President, the influence of the administration in its favor, and the insistence of church leaders and many organizations that such a tribunal be created, it is believed, will spur the senate to take action upon it before adjournment.

DEVOTED TO **MICHIGAN**

VOLUME CLXIV

A Practical Journal for the Rural Family

MICHIGAN SECTION THE CAPPER FARM PRESS

QUALITY RELIABILITY SERVICE

NUMBER THIRTEEN

What Is the Best Spray Material?

Some Interesting Results in the Spraying of Apples

By W. C. Dutton

HE title may lead you to think that I am going to tell you what really is the best material for spraying apples, but I am going to confess right now that I don't know, and further than that, I am going to try to get you dissatisfied with what you have. I presume that there are a number of people who have very definite ideas as to the best spraying material for summer applications on apples. Some will prefer Bordeaux, some lime-sulphur, some dust. Most men are it deserves and this is probably due of good judgment and undoubtedly have very good reasons for thinking that some particular material is better than any other. We may find before long that there is no one material which will be best under all conditions. We must consider the locality, the variety and its susceptibility to scab, russeting and foliage injury, the method of spraying, etc.

It will probably be well right at this point to set up what we may call a 'set of specifications" that a material must meet before it is ever adopted as standard. This list might be a long but I will confine it to five items.

- 1. Physical properties. 2. Mechanical troubles.
- Foliage injury.
- 4. Finish of the fruit.
- 5. Scab control.

Physical properties: By this I mean is it hard to prepare, mix, store, strain

the problem of keeping in suspension in the sprayer tank and wear on pump parts, valve seats, gun or nozzle discs. These things have to do with the material itself; the other three have to

do with the fruit and foliage. Foliage injury is every year being given more of the consideration that to the fact that we are becoming better informed as to the importance of the leaves.

Mechanical troubles would include the spraying game that has received too little consideration. We hear a lot about "quality fruit," but what does that amount to if it is rough, and russetted. "Finish" is important.

one that always has, and probably always will be, considered the most important. A material may score 100 for the first four items, but if it fails on the last it goes out.

Strength of Materials and Dosage. Very closely connected with this Finish of the fruit is an angle of problem of spraying materials is the

question of strength and dosage.. Will weaker lime-sulphur or weaker Bordeaux control scab just as well? Will these weaker strengths cause less foliage injury and produce better finish? Another angle that has been emphasized, and properly so, is the question of dosage. Many growers have not The last item, scab control, is the gotten control because they have not used enough material. Again, questions come up. Can we spray too heavily? Will heavy spraying cause more russeting and more foliage injury? How far will increased dosage give better scab control? Should we use a small amount of strong material? With these questions, and a lot of others in mind, one of the experiments I am going to talk about was planned and carried through during the summer of 1924.

> This work was done in a twelveyear-old orchard. The variety was Hubbardston. (See Table 1).

> Each plot was sub-divided so that one row received a light application, another row a medium application which was just twice as heavy as the light application. A third row in this same plot was given a heavy application which was three times as heavy as the light application.

The next column in the table shows the ratio of active ingredients which each row received. An arbitrary value of one is given to the light application (Continued on page 425)



Proper Care and Spraying Has Made the Keister Orchard Profitable Since

Much Thought Goes in Prize Corn

Here is the Story of Why Two State Corn Prizes Went to Hanover By Elmer Vaughen

WISH to thank the Michigan Farmer for its kindly interest and request for story about the corn. I will try to tell the story and to give it er man surely must have had a grouch. as he kindly informed me, began to

First of all, the winning of the ribbons is just a joke. There are here among my parishoners three of the very best corn men of the state. D. E. Turner, from whom the seed was obtained and who bred the variety, crossing Pickett with Duncan, then selecting carefully ever since; William Folks, who developed Folk's Whitecap Dent by selection; and his brother-inlaw, Leo Wooden, who has helped to improve the same variety. These men make a trio which is hard to beatjust like the little boy's drum. These men did not show this year, so the preacher gets some ribbons.

The field lies just at the edge of the village, is quite rolling, extending from the level of the town to the border of Bibbins Lake. It was plowed late in the fall after having some barnyard manure applied to the most needy spots. The land has been in cultivation seventy-five years or more. It is somewhat deficient in humus, and only fairly fertile. The drag was put on, on the second day that work in the field could be done. Later it was dragged again twice. The seed-bed was fine, Planting was done with a horse planter. Those awful rains began just then, so that one part of the field was started a week behind the first. Then came more rain and cold. The weath-

just a little touch of personal interest It was a full month before cultivation could begin. The part of the field planted first was replanted with hand planter. On the hills left from that first planting the first corn grew. About half of the field was cultivated three times, the other half four times. It was all hoed once.

In the fall as soon as three shocks of corn had been cut anywhere within miles of here, the man who owned the field, a dear old fellow, eighty-three years old, who had forgotten more about raising corn than I ever knew,

urge the harvest. He was put off a week. Then his part of the corn was cut. Mine was not cut till frost had done much damage in less protected fields. Of course, by the almanac, it was far past time to cut corn. My corn was not husked till winter was here.

Thirty shocks are yet in the field. bushels of choice ears had been brought over as husked and laid on suspended planks in the garret of the parsonage barn.

This was overhauled and about one

and one-half bushels were brought intothe house. Here more comparisons were made and two groups of some twelve or thirteen ears were made. The first was, practically, the ears that finally went to East Lansing. The others were rather larger, but rougher on the surface, showing more starch. Time was taken in this selecting proc-Some study was given to each When all was ready, Mr. Turner was called in. Several changes were Now about the selection: About six made, most of which were reconsidered. One of them I must tell you about. The "sweepstakes" ear that I had selected was changed for one from the "ten ears," with the result that "ten ears" got first and "sweepstakes" second. Had this change not been made it is quite probable that the premiums might have been reversed.

> And now the Corn Story is done, you can say that, not me, but Mr. Turner won at the Lansing show. And now, if you can stand it, I'd like to add another word about corn. This is said in the shadow of the record in the fiveacre tests. These are supposed to be variety tests, I believe. As a matter of fact, they are soil tests.

Two years ago we ran a nine variety test in this same field. Clement was the most fully matured. It was not the best yielder. The seed we planted came from M. A. C. and was not quite as high in germination as most of the others. That may have accounted for a little falling off in bushels. But it may also have accounted for a little advantage in maturing.



In Good Corn Production Preparation of Soil is Important.

TO STANDED BY STORY OF THE RESIDENCE OF

MICHIGAN SECTION THE CAPPER FARM PRESS



The Lawrence Publishing Co.

Editors and Proprietors

1632 Lafayette Boulevard De
Telephone Cherry 8384 Detroit, Michigan

NEW YORK OFFICE, 120 W. 42nd St. CHICAGO OFFICE 608 So. Dearborn St. CLEVELAND OFFICE 1011-1013 Oregon Ave., N. E. PHILADELPHIA OFFICE 261-263 South Third St. ARTHUR CAPPER President
MARCO MORROW Vice-President
PAUL LAWRENCE Vice-President
F. H. NANCE Secretary

I. R. WATERBURY
BURT WERMUTH.
FRANK A. WILKEN
TIA A. LEONARD.

Sociate Editors

Dr. W. C. Fair
Frank A. Meckel.
Gilbert Gusler I. R. WATERBURY.....Business Manager

TERMS OF SUBSCRIPTION One Year, 52 issues.
Three Years, 156 issues.
Five Years, 260 issues.

Five Years, 200 issues.....\$3.00

All Sent Postpald.

Canadian subscription 50c 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 \$1.05 each insertion. On objectionable advertisements inserted at any time. Entered as Second Class Matter at the Post Office at Detroit, Michigan. Under the Act of March 3, 1879.

Member Audit Bureau of Circulation.

DETROIT, MARCH 28, 1925

VOLUME CLXIV

NUMBER THIRTEEN

CURRENT COMMENT

The Human

SHORT time ago we had the privilege of visiting a home for crippled children. This visit was an inspiration: it

was a lesson in courage, a demonstration of the triumph of mind over mat-Of all the handicapped suffering children we saw, we failed to see one sober face. If these children who were strapped on their backs or with portions of their bodies in casts, were not sleeping they were smiling the great smile that comes from within.

Here were those who should naturally be romping and free, suffering from real personal difficulties brought on by circumstances beyond their control; they were more than making the best of their afflictions. Life was apparently worth living for each one of

Do not we, normal, free and matured of mind, stand out in sad contrast with these children. We, who suffer constantly with worries over imaginary things, or things which never cause harm, except through our worry of them, need such examples to make us realize the necessity of cleaning out our mental storehouse, the 1 1man attic of all the rubbish that has collected therein.

It seems that those who have real, apparent personal problems are seldom grouchy, and those who have imaginary ones usually are.

This is spring; it is cleaning time. Let us not forget to clean that most important place, the human attic, of all that should not be there, and thus leave more room for the clean, sane constructive thoughts which should work hard to bring us the greatest results during the coming season.

Our 1925 Program

for the season is before the spring work has started. The great

stabilizing influence of the production of farm products and of the prices to be received for these products is the planting of a normal acreage of each crop. This is especially true for those products which are fully consumed within the limits of our own country. However, every year it seemingly is desirable to make a few minor changes in the program to meet varying factors of production and consumption.

The government has made a survey of intentions to plant various crops in all the states. The results of this inquiry shows that for the country as a whole, there is a prospective increase of fourteen per cent in the acreage of spring wheat, 2.3 per cent in corn, 5.6 per cent in oats, twenty-three per cent in barley, 29.5 per cent in sweet potatoes, 4.5 per cent in peanuts, and eleven per cent in rice. The prospective acreage of hay remains the same, while that of potatoes will decrease four per cent, and of flax 3.3 per cent.

Our Michigan farmers report an intention to reduce the acreage of potatoes ten per cent, and that of hay one per cent. On the other hand, corn promises to have an increase of one per cent, oats five per cent, barley twenty-five per cent, and spring wheat sixty per cent. These changes if carried out, would increase the corn acreage 13,000 acres, oats 147,000 acres, barley 11,000 acres, and hay 343,000 acres, while of potatoes there would be 71,000 fewer acres planted. In a relative sense these changes small.

Possibly the only comment that might be added is in regard to potatoes and beans. It should be noted that our acreage of potatoes last year was cut twelve per cent below normal. The big production of 1924 was due to an average yield of eleven bushels per acre above the highest previous record. In looking forward we can, of course, only count on normal yield. If our crop acreage should be reduced an additional ten per cent this year, in accordance with the above report on intentions, then with an average yield the production would run far below normal.

In some sections where beans and potatoes compete, we fear that much of the land which ordinarily would grow potatoes will be planted to beans. The 1924 crop of beans was considerably below normal in yield, notwithstanding an average acreage was planted. If a normal acreage only is planted, and the yield is an average one, there will be ample beans grown to care for a normal demand. Should. however, this acreage be increased. the chances will be fair for selling the crop at a very low price.

Naturally, the changes made by the individual, are of small importance, but taken in the aggregate, the effect over the state and country is large, and often results in making crops either a total failure from a financial point of view, or exceedingly profitable. Our opinion is that farmers will do well to stick closely to their normal crop programs, unless there exists the best of reasons for making acreage adjustments.

Some Words Of Wisdom

W E have a President who is unique in that he is a man of few words and many thoughts. But when he uses words

they display the soundness and saneness of the thoughts he has been thinking. Here is one he uttered in a speech a few months ago:

"Doubtless the farmer often has a hard road to travel and much to contend with. At the same time it may be said that he is not always versed in scientific agriculture nor equal to its opportunities."

in the crop program received with applause by the rural onstrated that a fellow would often population. The second would not re- ruin a good suit of clothes if he folceive such a hearty welcome. It is lowed these long-range predictions. a criticism, and criticism seldom receives applause from the one who is criticized.

> But, we believe a fair minded person will admit that the President has uttered a truth in a simple and straightforward way.

> It seems to be a human failing, not an agricultural one, to lay the blame for everything on something else. But it is an asset to have that rare quality of correcting all the faults closest at

hand before giving attention to those farther away.

In farming, these faults can be corrected by proper fertilization, cultivation, the use of good seed, the proper tending and harvesting of crops and preparing them for market, the right care of farm animals, etc. Somehow, those farmers who thoroughly do those things which are involved in what one calls good farming, are not complaining so much about the road they have to travel.

European Corn Borer

UP to the present time the records show that the damage done to corn in Michigan by the European Corn Borer has not

been large. In no case where careful observations have been made does the number of infected stalks in a Michigan field exceed one per cent, and the injury has been practically negligible.

However, the danger should not be minimized. It is real and demands the attention of every agency that can be put in action against this pest. Just across/the river in Ontario, the damage from this insect last year was six thousand per cent greater than for the preceding year. In one instance a farmer who previously had cribbed on the average 1,200 bushels of corn, had but 262 bushels from the same acreage in 1924. Besides, there was an average of twenty-one corn borers found in each bushel of this yield.

In order to secure a general clean up of the European Corn Borer in this state, a bill has been introduced in the legislature giving the State Department of Agriculture authority to lay down and enforce needed regulations. To carry on this work, an appropriation of \$25,000 for 1925, and a like amount for 1926 is provided. These funds will be used for carrying on scouting, quarantine, and demonstration work. Should our legislature make this bill a law the state will then have the cooperation of the federal government which will make available an additional \$35,000 to \$50,000 for use in this state. This should prove adequate to put the pest under strict surveillance.

Judging from the experiences in other places, it undoubtedly will prove the part of economy to immediately take up the fight against this European Corn Borer. In order to impress the state legislature with the need for state aid, farmers should write their representatives at Lansing, urging them to pass this measure. To be of benefit this should be done at once.

Long Range Forecasting

 $S_{
m ful}^{
m TARS}$ are wonderful things. To look into the deep blue on a clear night and watch the twinkling sentinels of heaven is They give to one who

an inspiration. looks a conception of the infinite. But the language of the stars, what

does that say? If we are properly versed in it, can it tell us what will happen six months, a year hence? Some people think so. Some even

think they know the language enough to tell us when it is going to rain and wet the hay next summer, and when the heat will wilt the corn. These folks give us the benefit of their super knowledge so that we may know THE proper time to A study of that quotation is worth when to carry an umbrella and when it fer so much a ounce, if you've got make adjustments while. The first sentence would be not to. Experience, though, has dem-

For instance, one predictor said that the past winter would set in early and last long. There would be much severe weather, and winter grain would suffer from lack of snow cover.

The winter has passed, so we know how well the predictions were fulfilled. The facts are, that the winter started late and ended early; the middle of December ushered winter in, and real wintery weather lasted only six of the twelve weeks of the winter season.

Another predictor said that in February cold spells would be of weekly occurrence. The records show that the past February came close to establishing a record for an average temperature above normal. It caused swelling of the buds much out of season.

The United States Weather Department also makes predictions. These are given a week or so ahead and are based on scientific findings over a very wide area. Even that fails sometimes, as storms change their courses, but it is the most accurate method of predicting that we, in the present day, are able to conceive.

These long distance predictions found in some publications, almanacs, etc., are in a class with divining rods to find water, earrings for sore eyes, and brass rings for rheumatism. Their one great value, it seems, is in giving one an opportunity to gamble on whether the predictor will happen to strike it right or not. But we believe that if one wishes to gamble there are more exciting ways so, even for that reason we have not given space to such predictions.

$H_2 O$

YOU don't know what that is, do you? Well, I didn't either until I got educated. But now I'm educated, so I kin tell you all about it. It's what the Dr. puts down on a piece of paper when he wants ta give you two parts o' hydrogen and one part o' oxygen. Both hydrogen and oxygen is gas, so when they want ta give you gas, they don't give this ta you.

It's the finest stuff you ever saw ta put out fires, but it ain't very good fer rumatics. When you mix two parts o' hydrogen and one part o' oxygen



you got a dandy combinashun fer cleanin', but still it makes things awful muddy. It's great stuff ta use and everybody ought ta know what it'll do fer them. Some o' the folkses don't like

ta use it, 'cause their skin ain't got used ta it, and others don't like it 'cause it ain't strong enuf.

A friend o' mine says he paid a Dr. ten dollars ta know that thirty parts o' this combinashun and one part o' sodium chloride was good fer the eyes. I says windy corners in the city is good fer the eyes, too, and it don't cost nothin', but what you got shouldn't cost more, 'cause it's nothing but water and salt.

Now, water don't cost much, but two parts o' hydrogen and one part o' oxygen, or aqua pura, what it is the same, does. Names seems ta make lots o' difference in the cost o' things.

The Doc. says about 112 pounds o' the 175 lbs. that's me, is water. Maybe he knows what he's talkin' about, but I ain't never heard myself splash But around any when I'm walkin'. come ta think o' it, I've heard o' some folkses sloppin' over, and they weren't tanked up either.

There's other ways o' makin' water expensive, but not so good fer the health. Just add a littul alkihaul, colorin' matter, or etc., and you kin sell bein's. There's lots o' watered fortunes made that way.

Sofie just says, "Ah, dry up, and come ta bed." I kin tell her if I dried up I wouldn't have to go to bed. All she'd have to do is to shovel me out with the ashes. She says, too, "You don't know nothin' about fortunes." I kin just say if everyone just wrote about what he knew about, there wouldn't be much we'd-have ta say. But I've had some experience with water a few times in my life, so what I give you here is what the perfessor calls authentic. HY SYCKLE.

Or How I Develop Heavy Layers By W. C. Eckard

ords of 560 Single Comb White Leghorn pullets which were placed under trapnests in the fall of 1923, we were very much surprised and not flow in the veins of every chick hatcha little pleased to note that better ed from our eggs this year. However, than 350 had laid during the 365 consecutive days, 200 or more eggs. Of the 350, 200-egg hens, 195 had laid 240 or more eggs; sixty-four, 270 or more feed and care. eggs, and five 300 to 324 eggs. The 300-egger's records were as follows, 300, 302, 304, 307 and 324 eggs.

tising of some hatchery men in Michigan may lead some people to believe egg producing ability of different birds. that 300-egg hens are very plentiful these days, 200-egg hens, as actually located through careful trapnesting, are still scarce enough that I would hesitate to write regarding 300-egg hens if it were not for the official rec-

AST fall on checking up the rec- Since then by the writer. All the 300egg hens, the contest hens and our 500 200-egg hens were sired by three males and the blood of these three males will not all of the chicks carrying this high production blood will be 300 or even 200-egg hens, even with the best of

Even with chickens as closely related as our stook is, there is ever some variations in type, size, etc., and just In spite of the fact that the adver- as there is variation in type and size, we can also expect variation in the This variation seems to act somewhat like a wave on the ocean, the 300-eggers being the very crest of the wave, with individual hens being located all the way from the crest to the trough at the bottom of the wave. Careful



The Sure Way to Success is to Feed Well-bred Stock Well.

ords made in 1923 and 1924 at the breeding for a long period of time ters and half-sisters of our 300-egg hens in the pens which we bred and which won first and third places respectively. The high hen in our first pen at the contest laid 285 eggs and easily might have laid 300 or more eggs had she been kept at home and handled just as her 300-egg relatives were managed.

While it is interesting to breed and develop a few 300-egg hens, the thing which counts from a financial standpoint is to be able to produce a flock with a large percentage of fairly high producers which makes for a high flock average. From the inquiries which I have had requesting information regarding how high record hens are developed, I am led to believe that far some magic system of feeding or management which if carefully followed will result in high record hens.

While proper feeding and management of the future high record hens from a day-old chick to the laying of the first egg and throughout the entire year's production, is of great imsome hens to be high producers. What, large number of promising individuals, ly fed and managed, may develop into eggs for hatching will be saved. a runt and be a poor producer; on the other hand, no amount of good above, is very interesting, but to date feeding or care will develop the poorly bred chick into an egg laying contest igan. The farmer or commercial poulwinner.

contest pens, or any of the better than he can get all the benefits at a low 500 200-egg hens at present on our cost by purchasing males with intense plant at Paw Paw, did not just happen. egg breeding back of them from the They are the result of breeding for a breeder who does specialize in the great many years for the purpose of production of the same. securing high flock average.

prior to three years ago, by the Late D. Tancred, of Kent, Washington.

Michigan Egg Laying Contest, by sis- seems to bring the crest of the wave and the trough closer together. In other words, careful breeding over a period of time has a tendency to maintain the production of the highest producers of a given generation on a level with the production of highest producers of the preceding generation, to increase the percentage of the whole number of individuals who make high records and to raise the production of the lowest producers.

At present, too often a hen, to most people, is just a hen, and the question is not even raised as to what is back of the hen in the way of breeding. Everyone interested in the chicken game, from the farmer with the small flock, to the big commercial poultry man, must have better breedtoo many people think that there is ing back of the birds in their flocks if they are to increase their profits. Not only must they have better breeding for production, but they must have better breeding from the viewpoint of vigor, health, size of bird and size and type of egg.

To have better breeding back of the birds which are to make up our flocks portance, no system of feeding or man- in three or four years, someone must agement yet developed would cause now be making a careful study of a then, is the one biggest factor in the that those hens which show by their developing of high producing hens? trapnest records and general make-up Breeding is the one most important to be superior individuals may be used factor in the production of high pro- as breeders for the production of ducing hens. A well bred chick, poor- males to head the flocks from which

To study individual birds as outlined has not been very profitable in Michtry man cannot afford to do this high-Our 300-egg hens, the hens in our ly specialized work for himself, but

Who can say what the value of pre-The breeding referred to was done potent egg-bred males may be? Three years ago I paid Mr. Tancred \$40 (Continued on page 442).



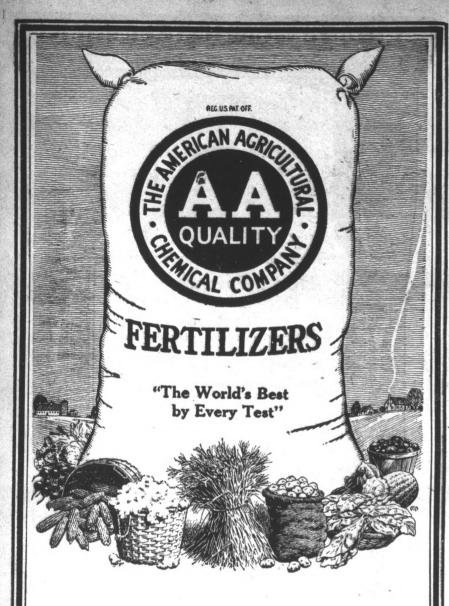


L. J. Mueller Furnace Company, Dept. E-3 Milwaukee, Wis.

Without obligation, please send me name of nearest Mueller dealer — also free catalog. I am interested in:

Address





"As good as A-A-C"

This is the favorite claim made by competitors in drumming the fertilizer trade, and nothing could more clearly demonstrate the supremacy of "A.A.C." Fertilizers than this gracious acknowledg. ment by our competitors that

"AA QUALITY" FERTILIZERS are generally recognized as the STANDARDS OF COMPARISON

They enjoy this distinction in consequence of their unbroken record of universal satisfaction and unparalleled success for more than half a century.

To insure the largest yields and best quality of all crops, use only

"AA QUALITY" FERTILIZERS

Manufactured by

The American Agricultural Chemical Company

Executive Offices: 2 Rector St., New York

Our Agricultural Service Bureau will help solve your farming problems. or their Crop Bulletins. Address: 92 State Street, 1

1925

Catalog

Northern Grown

Whatever kind of soil you have, there's an Isbell strain of alfalfa that will give you wonderful yield. Beware imported seed of unknown purity, germination and hardiness. Vitality and adaptation to soil and climate are bred into Isbell seeds. Send today for your copy of Isbell's Seed Annual—the authoritative book on seeds and crops. Samples showing quality sent on request FREE. 313 Mechanic St. (75) Jackson, Mich.

State Captitol News

Our Lansing Correspondent

now centered in the house of representatives. The senate, with but a single vote to spare, passed. Senator Wood's amended bill giving Wayne county seven instead of five seats in the upper branch of the legislature. The final vote in the senate was preceded by two hours of intense debate and intricate parliamentary procedure.

The Detroit members sought amendments to give Wayne county eight or ten seats, and when every effort in this direction was defeated, they threatened to vote against the sevenman bill, declaring it was unconstitutional. Senator David Butler, of Fostoria, presented an opinion from Attorney-General Dougherty declaring that the bill to give Wayne seven seats would probably be held constitutional by the courts.

The house committee on apportionment is struggling with Representative Charles Culver's proposal to give Wayne twenty-five instead of fourteen house members. If either of these bills ever get out of committee, there will be a merry fight on the floor of the house.

highway plans have fared well at the hands of the legislature. After no little discussion, the Atwood bill, authorizing the laying out of 500 miles of additional trunk line mileage, the routes to be determined by the state highway commisisoner and the state administrative board, has passed both branches of the legislature.

Despite the determined opposition of the Wayne county delegation, and Senator Charles Herrick, of Fenwick, the senate approved by a vote of twenty-three to six the so-called Ming bill which provides that on and after January 1, 1926, the state will take over the construction and maintenance of the entire trunk line highway system of Michigan and relieve the counties from any burden, financial or otherwise, in connection with trunk line highways.

ROM the standpoint of Michigan motorists, probably one of the most important bills now pending in the legislature, is the Richardson bill which is designed to reduce accidents and fatalities at grade railroad crossings. This bill, which passed the house by a vote of eighty-two to twelve after an extended debate, would allow the state public utilities commission to designate especially dangerous grade crossings and to compel the railroad companies to provide standard stop signs at crossings so marked, and would require all motorists to bring their cars to a complete stop before crossing such tracks.

The Richardson bill is a substitute for three or four considerably more the session. It is said to have the the employes as well. The motoring by the grade crossing accidents in Drops, Michigan Under Color. Michigan Under Color. Michigan.

PROTECTION of Michigan farmers against those who would defraud them by selling drugs and compounds of cheap ingredients at exorbitant prices, for stock feeds and tonics, is sought by a bill introduced by Senator to have the backing of the State Department of Agriculture.

This bill provides for the regulating by licensing of every manufacturer or firm dealing in live stock remedies in Michigan. The term, "live stock remedies," is held to include all condi- the senate committee on agriculture.

HE reapportionment fight has mental feeds, medicated stock foods, medicinal stock foods, stock food tonics, stock powders, condition powders, conditioners, animal regulators, proprietary medicines, and any preparation of a like nature, in either solid or liquid form, used for animals. It does not apply, however, to remedies prepared and prescribed by a veterinarian who is regularly licensed in Michigan, for use in his own practice.

Before any manufacturer or other person could sell any of these remedies above mentioned in Michigan, it would be necessary for him to file with the state commissioner of agriculture a sworn certificate showing the name of the manufacturer, the brand or trade-mark of the remedy and the minimum net contents of the package or bottle containing it. would also be necessary for him to furnish the department with a sample of the remedy accompanied by an affidavit to the effect that the sample was exactly the same as the product to be marketed. The names of all ingredients would have to be printed in English, rather than in Latin or some other foreign language.

If the commissioner of agriculture approved the sale of any such product HE administration's trunk line the dealer or manufacturer intending to sell it would be given a license for which he would pay \$25, renewable each year. At least one sample of every product so accepted would have to be analyzed by a state chemist.

> WHEN it became evident that Representative McKinnon's bill to change the name of the Michigan Agricultural College would not meet with much support in the house, Senator Norman B. Horton, of Fruit Ridge, determined to find out the reception of such a proposal in the senate. He has introduced a bill to call the East Lansing institution the Michigan State College of Agriculture and Applied

> AT last it appears that the insistent agitation which has been brewing for many months for some reform in the matter of distributing the primary school interest fund bids fair to bear some definite fruit. It will be remembered that the Meggison bill, or Escanaba plan, which proposed to distribute this school fund as nearly as possible in proportion to the needs of the several school districts in the state, passed the house in 1923, but was smothered in the senate committee.

THE earnest discussions which have been carried on through the columns of the Michigan Farmer and elsewhere regarding changes in the Michigan apple grading law have finally culminated in the introduction of a bill by Senator George Leland, of Fennville, which would repeal Act 266 of the Public Acts of 1923, the present drastic measures introduced earlier in law providing for seven apple grades, and would substitute four grades as backing of the railroad owners and follows: Michigan Fancy, Michigan A, Michigan B Grade, and Commercial public is no doubt equally interested Grade. The seven grades provided by in some sensible plan to prevent the the present law are: Michigan Standfrightful toll of human life now taken ard Fancy, Michigan Standard A, A gan Orchard Run, Michigan B, and Michigan Unclassified.

If Senator Leland had waited for the apple growers to reach an agreement, no apple grading law would have been introduced, as some of the growers wanted more grades, while others insisted that they should be simplified Frank L. Young, of Lansing, and said and reduced in number. Senator Leland being an experienced apple grower, coming from Fennville, which ships more apples than any other point in the state, finally took the bit in his teeth and drafted his own bill. It has already been reported favorably by

Fertility Facts

By O. B. Price

HE farmer should be interested in greater profits per acre instead of greater yields per acre. In either case the fertility of the soil should be maintained.

There is a place for fertilizer on every crop, but to be profitable the proper fertilizer must be used and the proper amount must be used. When we consider that an application of 300 pounds of fertilizer per acre only allows about one ounce to every nine square feet, it can be clearly seen that an available form must be used and the proper ratio of ingredients must be

A soil is not too low in plant food to germinate seed, for a germinating seed uses only the plant food stored within the seed coat. When the little roots begin to appear then it begins to draw on the supply in the soil. If there is insufficient amounts present the plants will produce less fruit of inferior quality, or none at all.

* * *

Most of the fertilizers are applied at planting time, either broadcast or with the seed. When broadcast more fertilizer should be used. Over a period of years this is considered best. Large applications in the row is not advisable because it is liable to prevent proper germination of the seed. Under average conditions 250 to 300 pounds is used when broadcast, and seventy-five to 150 when applied in direct contact with the seed. Some crops, such as sugar beets, potatoes and certain truck crops, should have from 500 to 700 pounds per acre broadcast. It is not advisable to apply over 250 pounds per acre when applied in direct contact with the seed, and highly nitrogenous materials should never be applied in direct contact with the

Serious injury to germination has been observed where highly concentrated nitrogenous materials have been applied at a rate as low as sixty pounds per acre with the seed. This should not discourage the use of concentrated nitrates and ammoniates, but they should be used as top-dressing, broadcast over the entire area. On the lighter types and poorer heavy types this top-dressing should be done in the spring on rye and wheat. On oats and barley it can be done about the time they begin to come through the ground. In using these materials be sure to know the soil reaction. On alkaline or neutral soils either sodium nitrate or ammonium sulphate can be used, but on acid soils sodium should be used unless lime is used in conjunction.

Some farmers are tempted to buy low grade fertilizers, or some insoluble form, because the price is cheaper per ton. After knowing the plant food requirements of a crop the next consideration is to buy a fertilizer with the elements in an available form. Since phosphoric acid is the main requirement on most soils, phosphoric acid in Michigan. Rock phosphate, white not used extensively in Michigan, does attract the attention of some farmers. It is greatly inferior to acid phosphate in Michigan when compared to the return in crop values. The returns from acid phosphate as compared to rock phosphate range from three to six times as great when used through a complete rotation.

Whenever in doubt about the proper fertilizer to use for a particular crop, keep in mind that your State Agricultural College is always ready to give you their advice, based on actual field tests conducted over the entire state.

* *

FOR TEN YEARS-DEPENDABLE

Exceptional dependability has been a characteristic of Dodge Brothers Motor Car since the day the first of these sturdy cars was marketed.

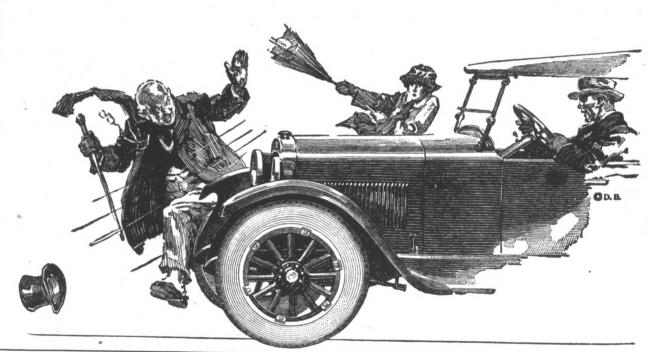
Not once in a decade has it failed to uphold and enhance its reputation for faithful performance.

The reason for its consistent goodness and continued betterment points directly back to the ideals of the founders.

Instead of fluctuating between an endless series of annual models, they determined to concentrate on the perfection of a single chassis.

Dodge Brothers Motor Car today is the embodiment of that ideal—an ideal that will endure as long as the institution itself.

Dodge Brothers Detroit DODGE BROTHERS (CANADA) LIMITED WALKERVILLE, ONTARIO





DON'T WEAR A TRUSS

BE COMFOR TABLE-

Wear the Brooks Appliance, the modern scientific invention which gives rupture sufferers immediate relief. It has no obnoxious springs bind and drawngether the broken parts No salves or plasters, Durable. Oheap. Sent on interpretations. Lower worth. Beware of interpretations. Lower the worth sewer of the control of the BROOKS APPLIANCE CO., 323A State St

Make Money Crushing Limestone on the Farm

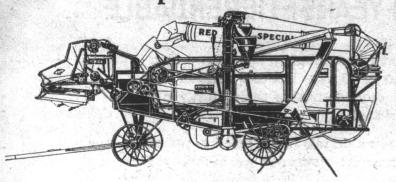
At low cost you can easily and quickly pulverize limestone on the farm. Fill your own needs. Save time—freight and hauling! Sell surplus to neighbors or for commercial uses.

Limestone Crushers
for agricultural, contracting and other purposes. All sizes—to meet
your exactneeds. We tell you
how to establish a profitable
business and make big
money. Write for prices and
big free catalog.
Crushers, Grinders, Pulverizers for all purposes.

J. B. Sedberry Co., 817-F Exchange Ave., Chicago **Limestone Crushers**

Because it SAVES All the GRAIN

No Experts Needed



Ready to Thresh and keep on Threshing

No expert separator man is needed to run the Nichols & Shepard Separators. They are ready to thresh when they leave the factory, and to keep on threshing for years to come.

12 Hyatt Roller Bearings running on case-hardened, smooth steel shafts, cut down the power needed to pull the separator, make oiling easy, eliminate hot-boxes and keep pulleys and shafts in line.

It is no trick to run the Nichols & Shepard Separator; the four threshermen, the Big Cylinder, the "Man Be-hind the Gun," the Steel Winged Beater, and the Beating Shakers, make sure that you will save all the grain.

Built in large numbers—this high quality Nichols & Shepard Thresher is now offered at a price that places it within your reach. A size for every tractor-from the Fordson up.

Nichols & Shepard Tractors 25-50 Oil-Gas 2-cylinder heavy duty. Allis-Chalmers 4-cylinder 15-25 and 20-35 Tractors for every farm need.

NICHOLS&SHEPARD COMP

THE RED RIVER SPECIAL LINE

Threshers

"How a Good Thresher is Built"

A catalogue in a new form that shows the Nichols & Shepard Separator, part by part, being built on the assembly floor, as automobiles are built. Starts with a frame at one end, and comes out ready to thresh at the other. Send for your copy, interesting as a story, and full of threshing facts. The coupon brings it free.



Tractors

NICHOLS & SHEPARD COMPANY, 286 Marshall St., Battle Creek, Mich. Send me the book "How a Good Thresher is Built."

-it saves the farmer's thresh bill

Please Mention The Michigan Farmer Writing To Advertizers



BEE HIVES

Berry Baskets and Crates



We carry a high grade wood basket, and the wax lined paper basket. Send for price list. Can quote special prices on large orders.

M. H. HUNT & SON,

Lansing, Mich.



has helped to restore usefulness

96 pages of solid information and help—how to locate, understand and treat every kind of lameness. The methods outlined in this FREE book have helped over 405,000 satisfied users.

SAVE-The-HORSE

SAVE-I RE-HORSE
es when everything else fails the most atubn cases of SPAVIN, Ringbone (except low),
ropin, or—Shoulder, Knee, Ankle, Hoof or
idon disease, while horse works. Has held the
fidence of farmers and breeders for 31 years,
d with signed MONEY-BACK Guarantee—
is take no risk. Write today for sample of
trantee, free Book and veterinary advice you
depend upon—no cost or obligation—all FREE.
TROY CHEMICAL COMMANDERS

TROY CHEMICAL COMPANY
320 State Street Binghamton, N.Y.
At Druggists and Dealers with
Signed Guarantee or sent prepaid

Keep Musterole on the bath-room shelf

Years ago the old-fashioned mustard plaster was the favorite remedy for rheumatism, lumbago, colds on the chest and sore throat.

It did the work all right, but it was sticky and messy to apply and my how it did burn and blister!

The little white jar of Musterole has taken the place of the stern old mustard plaster.

Keep this soothing ointment on your bathroom shelf and bring it out at the first cough or sniffle, at rheumatism's first warning tingle.

Made from pure oil of mustard, with the blister and sting taken out, Musterole penetrates the skin and goes right down to the seat of the trouble. To Mothers: Musterole is also made in milder form for babies and small children. Ask for Children's Musterole. 35c and 65c jars and tubes; hospital size, \$3.



The Musterole Co., Cleveland, Ohio

BETTER THAN A MUSTARD PLASTER

OPTION EXPIRES.

We have a farm on which my father gave a man an option in January, 1909. Nothing was heard from this except that in November, 1910, he wrote my father and told him he elected to purchase the farm. No money transactions were made and nothing was done until lately when the man asked us our price, and we said \$12,000. He came again and offered us \$5,000, which he said was the option price. The option referred to above was only for eleven months duration. Do we have to accept the \$5,000 price he offers?—N. V.

Options are strictly construed and must be strictly performed to entitle the optionee to the property. It is manifest that there is no duty now to convey, the option having expired.-Rood.

HOW TO SOW GRASS SEED.

I have five acres of fall-plowed corn stubble on which I intend to sow oats this spring and seed down. Which would you favor, to sow the grass seed ahead of the drill or after the drill? What proportions should this seed be mixed, as I intend to take one crop of hay off, then pasture it.—H. S.

Excellent results are usually secured by sowing the grass seed just ahead of the drill. When this method is followed the grass seed is covered from one-half to three-fourths of an inch deep and the oats covered from one inch to one and one-half inches deep, provided the seed-bed has been well

In case the drill is so constructed that it is not possible to seed ahead of the disc, the grass seed may be covered by attaching chains to the drill, or it may be covered with spike-tooth drag.

Under the conditions you mention, would recommend seeding consisting of the following: June clover, four pounds; alsike, two pounds; timothy, four pounds; Kentucky bluegrass, six pounds. The above amount for one acre.—C. R. Megee.

AMOUNT OF POTATOES TO FEED.

Will you please inform me as to how many potatoes a day for horse or cow I can feed? I have a lot of potatoes and no sale for them.—J. G.

It is profitable to feed about the same amount of potatoes to cows as you would of corn silage. Let us compare the food value of these feeds:

Potatoes contain 1.1 per cent of protein, 15.7 per cent of carbohydrates, and 0.1 per cent of fat. Silage contains 1.4 per cent of protein, 14.2 per cent of fat.

It will be seen that silage is only a little richer in protein and not quite so rich in carbohydrates. The protein is the more valuable nutriment but the difference is small. Now the standard ration of silage is about thirty pounds and one can safely feed thirty pounds of potatoes, or a peck night and morning per 1,000 pounds live weight. Cows may not eat that much at first. One should begin by feeding a few and gradually increase to a full ration.

SEEDING ALFALFA AFTER BARLEY.

seeding alfalfa with barley. seeding alfalfa with barley. I have three acres of good soil, medium heavy loam, well drained, that I want to sow to black barley and seed to alfalfa. How much barley and alfalfa should be sown per acre, and should they both be sown at the same time? What variey of alfalfa would you advise? variey of alfalfa would you advise? How much hydrated agricultural lime is equivalent to two tons of ground limestone?—H. J. S.

Barbless barley makes an excellent nurse crop for alfalfa. It does not shade the land as many other varieties and has a stiff straw so that it does not lodge badly. This barley may be sown at the rate of six pecks per acre. of property, and void. -Rood.

Grimm alfalfa is very dependable under Michigan conditions. Ontario Variegated and Northern Grown Common are usually successful. From eight to ten pounds of certified Grimm seed per acre is usually sufficient, while from twelve to fourteen pounds of other seed is needed.

It is advisable to seed both the alfalfa and barley at the same time. If you have a grain drill with a seeder attachment, would suggest broadcasting the alfalfa seed just in front of, or on to the discs. When this method is followed the alfalfa seed is covered from one-half to three-fourths of an inch deep, while the barley is covered from an inch to one and one-half inches deep, provided, of course, that the seed bed has been well firmed.

Finely ground limestone has about three-fourths the neutralizing ability of hydrated lime. It would require between 2,900 and 3,000 pounds of hydrated lime to equal two tons of finely ground limestone. Owing to the high price of hydrated lime it is usually much more economical to apply ground

limestone.—C. R. Megee.

DIVISION OF PROPERTY.

My father died January 24, 1923, leaving bonds and money in the bank amounting to \$6,700, and no will. He was divorced. There were four children, one has not been seen or heard of for eight years. The court at Chicago divided the money for the three children after deducting expenses, but for the missing heir they turned it over to the Cook county treasures and I am told that they keep this money I am told that they keep this money indefinitely. Would like to know if this is possible.—M. B.

Disposition of personal property is determined solely by the law of the place of residence of the deceased at the time of his death, subject only to the claims of creditors living or debts contracted at the place where the property is administered. Presumably this depends on the law of Illinois, and is purely statutory. The place of residence of the deceased is not given. -Rood.

MINORS IN POOL ROOMS.

Is there any law in Michigan which forbids high school students to play pool in the city pool rooms?—M. R.

Compiled Laws 1915, Sec. 7223, makes it a misdemeanor for the operator of any pool room to permit any minor attending school, public, private or parochial, to remain in any pool room; and by the same statute it is a misdemeanor to permit a minor under seventeen years to remain in such a place though not attending school.—

BURIAL REGULATIONS.

Do you have to employ an undertaker to conduct a funeral, or would a person get a casket and have some other person conduct a funeral? I have been told that the law is that one has to have a licensed undertaker.

Embalming can be done only by licensed embalmer; but it is not necessary to have a body embalmed before burial; nor is it necessary to have a casket. Neither funeral ceremony nor burial in a cemetery are legal requirements. A few years ago a man was indicted in Kentucky for the burial of his child in a pasteboard box in a woodlot without funeral ceremony; and the court declared the funeral ceremony to be a religious rite, which the constitution forbids being established by law; and in several cases it has been held that laws and ordinances forbidding the burial of bodies outside of established cemeteries are unconstitutional restrictions on the use

Start Reforestation Work

Cloverland Leaders to Begin Work Immediately By L. A. Chase

ment of the directors of the Upper Peninsula Development Bureau at their meeting at Marquette, March 14. A definite proposal for undertaking reforestation on a small but effective scale was made at this meeting by Mr. E. G. Amos, assistant state leader of county agents, and was enthusiastically adopted by the directors.

Mr. Amos' proposition was this: Secure eleven three-acre plots typical of as many sections of the peninsula, and set them out to trees-spruce, Norway, white pine, Jack-pine, etc., 1,200 to the acre. The trees for this planting can be secured, it has already been determined, from the Michigan Agricultural College, the State Conservation Department, or the United States Forest Experiment Station at Cloquet, Minnesota, without charge. The only expense would be that for transportation by express and for the planting after arrival. The bureau promptly voted an appropriation of \$500 to cover these incidental ex-

The Michigan Agricultural College Extension Department will be responsible for supervision of planting and care, and for the collection of data relating to each plantation. It was thought there would be no difficulty in securing the land and several landowners who happened to be present immediately volunteered a grant of land for the purpose in three or four counties, one owner offering as much as forty acres in each tract.

The idea underlying this proposal is to show the inhabitants of the peninsula and the tourists passing through, what such demonstration plots can accomplish in a very few years if approved forestry methods are adopted. They will serve as the best kind of propaganda for a better program of reforestation throughout northern Michigan. The Upper Peninsula Development Bureau cooperating with the college, will undertake to see that each plot is properly marked by the roadside so that all who pass may read that there is a forest demonstration plot there, whose inspection will reveal what reforestation is good for.

It is admitted that there remains much about tree growth in this section that is undetermined, and the college specialists will make it their duty to measure and collect the results of their observations of these plantations as a basis for large scale work hereafter. The public, it is believed, will be impressed by what they see and what the technical data thus gathered in will show, and a healthier sentiment will be developed in consequence.

It is proposed to start the work this spring. It is already known that technical assistance will be forthcoming from the expert staffs of the state and United States forest services. While in themselves little reforestation will be accomplished in comparison with the vast amount that is required to retimber the cut-over country, the edu-

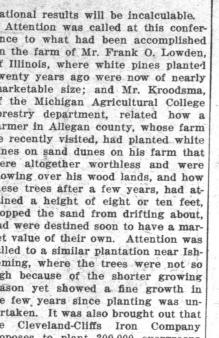
HIS was the unanimous senti- cational results will be incalculable. ence to what had been accomplished on the farm of Mr. Frank O. Lowden, of Illinois, where white pines planted twenty years ago were now of nearly marketable size; and Mr. Kroodsma, of the Michigan Agricultural College forestry department, related how a farmer in Allegan county, whose farm he recently visited, had planted white pines on sand dunes on his farm that were altogether worthless and were blowing over his wood lands, and how these trees after a few years, had attained a height of eight or ten feet, stopped the sand from drifting about, and were destined soon to have a market value of their own. Attention was called to a similar plantation near Ishpeming, where the trees were not so high because of the shorter growing season yet showed a fine growth in the few years since planting was undertaken. It was also brought out that the Cleveland-Cliffs Iron Company proposes to plant 300,000 evergreens on Grand Island, Lake Superior, this

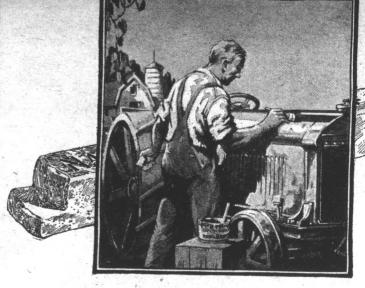
> All this may be a drop in the bucket, but it is a real start in the right direction. More timber land rather than more agricultural land is what is wanted right now. This is one way to get It will remain necessary to keep out the fires. One land owner told of a plantation of trees in the southern part of the peninsula that had been partly ruined by careless setting of fire in the vicinity. It is believed, however, that persons who see what these demonstration plots can accomplish if left free to grow, will henceforth be more careful about setting fires in the woods and brush. Farmers have a real interest in this project.

THE BEST SPRAYING MATERIAL?

(Continued from page 419). lime-sulphur or copper that each tree got under every combination of strength and dosage. For example, compare items one and four. Both rows received the same number of gallons per tree of dilute material but since the material used on number four was just twice as strong as that for number one, it is very evident that number four got twice as much actual lime-sulphur as number one.

Very careful and complete observations were made on scab control, finish of the fruit, and foliage injury. It may be pointed out here that there are two definite types of injury which result where lime-sulphur and lead arsenate are used. One is the 'yellow leaf" type which was very common in 1923. It is thought by many to be the result of water soluble arsenic rather than lime-sulphur. The injury which was prevalent this year was altogether different, it being of a "brown leaf or scald type, and undoubtedly was a true lime-sulphur injury. There may be other types of injury but I would consider these the





Red-lead helps man win the greatest war of all time

HIS war is between man and Nature. What man builds, the forces of Nature try to destroy. Nature is everlastingly striving to return all materials to their original and most stable

Man uses in his structures, among other materials, the strongest metal he has-steel. Opposed to it is one of Nature's strongest elements - moisture - laden air. The air attacks this metal which man has won from Nature and tries, by what is known as rusting, to draw it back to its original state. If the metal is left to face the attack alone, it soon weakens. It crumbles—is destroyed.

This battle with rust goes on about your own farm every minute of the day. You have steel in metal equipment, machinery, plows, metal gutters, various farm implements.

With red-lead, made from the metal, lead, you can make a covering for your steel through which air and moisture cannot penetrate. With red-lead your steel and thus your farm equipment give much longer service. When you give your metal this complete protection, you do only what engineers, building contractors, railroads, steamship companies and the U.S. Navy do for all the steel they use.

Follow their example further and use Dutch Boy red-lead.

Dutch Boy red-lead is pure and is highly oxidized. It has stood all tests for durability. It makes a hard, tenacious film that is still elastic

enough to expand and contract under heat and cold without cracking. Because it is exceedingly fine, it brushes out evenly and has unusual covering power. It gives full and economical protection to the metal surface it

Dutch Boy red-lead, ready for mixing with pure linseed oil, comes in the natural red-lead color. It can be shaded to browns, greens, black, and other dark colors as desired.

Free paint booklet

We shall be pleased to send you a booklet, "The Handy Book on Painting," a storehouse of general paint facts and formulas. A section is devoted to the protection of metal surfaces. It tells how to prepare the surface for painting, how to mix and apply the paint. We shall also be glad to give you any specific information on any particular painting problem you may have.

Other Dutch Boy Products

In the famous Dutch Boy series of products, besides red-lead, there are white-lead, flatting oil, solder, linseed oil and babbitt metals.

National Lead Company, in addition, makes lead products for practically every purpose to which

lead can be put in art, industry and daily life. If you desire specific information about any uses of lead or have any special paint problem, write to our nearest branch.





Table 1-Strength of Material and Dosage Tests

44.4644.505.665	ස්	of al	ent	usset	—Per	· Cent.	
Material and Strength.	pplic on	atio c ctive ateri	erCe	ght	Mediun	avy	
Weak lime-sulphur ¾ gal. in 50	↓□ Light Medium Heavy	₩₩ 1 2 3	23 9 5	12 13	OOOMe	оооНеаv	
Strong lime-sulphur 1½ gal. in 50	Medium Heavy	6	8 3 2	12 27 28	$\begin{matrix} 0 \\ 0 \\ 10 \end{matrix}$	$\begin{smallmatrix}0\\0\\1\end{smallmatrix}$	
Weak Bordeaux 1-2-50	Light Medium Heavy	2	20 7 1	38 26 12	50 50 52	$\begin{array}{c} 7 \\ 20 \\ 36 \end{array}$	
Strong Bordeaux 3-6-50	Light Medium Heavy	3 6 9	$\begin{array}{c} 2 \\ 0.3 \\ 0.6 \end{array}$	7 4 10	49 33 36	40 62 53	

NATIONAL LEAD

COMPANY

New York, 111 Broadway; Boston, 131 State Street; Buffalo, 116 Oak Street; Chicago, 900 West 18th Street; Cincinnati, 659 Freeman Avenue; Cleveland, 820 West Superior Avenue; St. Louis, 722 Chestnut Street; San Francisco, 485 California Street; Pittsburgh, National Lead & Oil Co. of Penna., 316 Fourth Avenue; Philadelphia, John T. Lewis & Bros. Co., 437 Chestnut Street.

Only Firestone Builds



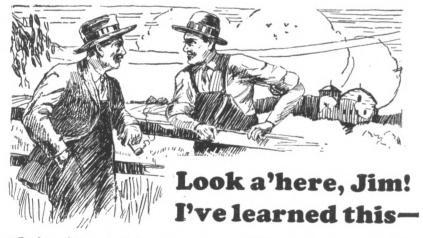
Farmers everywhere are praising the comfort, safety and economy of Balloon Gum-Dipped Cords—advantages made possible by the special Firestone process of gum-dipping.

Gum-dipping insulates every fibre of every cord with rubber, giving extra strength to the light, strong, flexible side walls to stand the extra flexing strain.

Specify Gum-Dipped Balloons-Full-Sizebuilt only by Firestone. The nearest Firestone. dealer will make the changeover quickly and at low cost—with liberal allowance for your present tires.

MOST MILES PER DOLLAR

Mention the Michigan Farmer When Writing to Advertisers



"It doesn't pay to take chances on seed you don't know, even if the tests on the tag do look all right. The tag doesn't tell the whole story, by a long shot.

"Of course, I always look at the tag and it has to be right, but I pay more attention to the brand.

"If it's 'Pine Tree Brand,' I know I'm safe.

"By the way, Neighbor, if you haven't got your copy of '7 Lessons in Judging Seed' yet, send for it today. It's free and you'll find it full of real information, worth dollars to

any farmer. Write to

THE ALBERT DICKINSON CO.

CHICAGO MINNEAPOLIS BUFFALO BOSTON PITTSBURGH NEW YORK



most important. The foliage injury properly handled, would make beautifrom Bordeaux was of the typical yellow leaf kind, but the season as a whole was not favorable to Bordeaux foliage injury. There was only one time, about August first, when Bordeaux injury on the foliage developed in this orchard.

that we are ready to answer some of the questions asked a little earlier. Will weaker lime-sulphur or Bordeaux give. control scab? The results show (Table 1) definitely that with equal dosages of weak and strong lime-sulphur and control of scab was less complete in was always greater than the difference

ful rugs or garments

The following chemical process has been recommended as a simple and practical method of home tanning. For the inexperienced it is best to start with the less valuable pelts, because the first attempts may prove a failure. I think now with these explanations Not that the method is complicaed, but rather that it requires more patience and attention than many will

If the pelt is dry it must be softened for several hours in running water or in salt water mixed in the proportion weak and strong Bordeaux that the of half a pint of salt to a pail of water. It must be taken out when it becomes every instance with the weaker ma- pliable as further soaking will loosen terial. The difference between a light the fur. Next the skin should be fleshapplication of weak material and a ed, in much the same manner as a light application of strong material trapper fleshes his pelts. The skin should be placed over a smooth fleshbetween a heavy application of weak ing beam, which every trapper knows

Schwab on Farm Machinery

I N a recent address before the International Kiwanis Club, Chas. M. Schwab, president of the United States Steel Coporation said

"Agriculture is a necessary backbone of a sound national development. Agriculture is a stabilizer in times of stress. In the last twenty years much attention has been given to machines in factories. The next few years will see more scientific attention given to machinery on the farm and to farming as a big constructive element of our community life."

Finley P. Mount, president of one of the largest farm equipment manufacturing concerns in the country, recently said, "Agriculture is the backbone of the nation. Farm machinery is the spin-

material and a heavy appliction of how to make, and all surplus flesh and strong material. This was true to about the same degree with both Bordeaux knife or other instrument. To comand lime-sulphur. The medium and plete the fleshing process, all grease heavy applications of strong lime-sulphur, the heavy application of weak Bordeaux and all applications of strong Bordeaux gave what might be called practically complete control of scab. The scab spots on the apples from these plots were mostly so small that they would not be detected in commercial grading. This answers rather definitely another one of the questions: How far will scab control keep pace with increased dosage? The answer is that if the material is strong enough that there is a practical limit to the amount of material to be used.

Another question: What effect will strength of material and dosage have on the finish of the fruit? The amount of russet produced by weak lime-sulphur was not large. With the strong lime-sulphur the amounts were greater and increased rather consistently with increases in dosage. The russet also increased consistently according to the ratio of active material. With Bordeaux, nearly all the apples show russeting in some degree, and the figures show a very interesting condition as to the degree of this injury. The amount of "medium" russet remains fairly constant for both strengths and all dosages. The percentage of "light" russet starts rather high with the light application of weak Bordeaux and decreases noticeably as we progress to the heavier applications of strong. On the other hand, the percentage of "heavy" russet begins quite low with the light application of the weak, and increases regularly through to the heavier applications of the strong.

TANNING FURS AT HOME

THERE are various animals on every farm, such as woodchucks. squirrels, moles, dogs, and cats and rabbits, whose furs are scarcely worth the trouble of marketing, but when tanned can be made into very beautiful and useful articles for the home.

It is not advisable, however, to attempt home manufacture of any of the valuable furs, but in the case of the the animals away when their furs, cheaply as possible.

fat scraped off with a dull hunting must be removed. This is best done by rubbing hot sawdust or corn meal over the pelt side

The skin is now placed in a pickling solution made as follows: In a wooden pail or in any glass or earthenware basin, mix one quart of salt in one gallon of hot water, let cool and slowly pour in one ounce of commercial sulhpuric acid. The skin should be sunk in this solution and stirred around occasionally to insure thorough soaking. woodchuck skin or other skin of equal size will tan in about two days, but a longer time will be necessary for larger skins.

The pickling solution will preserve the skin and will not injure it if left in over time. When removed from the pickle the skin must be washed thoroughly. It should be scraped and shaken of all surplus fluid and soaked for an hour in a pail of lukewarm water to which has been added a handful of washing soda. When removed from this, rinse well in clean water and hang up to dry.

The final stage of the tanning is the softening process, which is dependent only on your supply of elbow grease, and must commence when the skin is about half dry. The pelt side should be rubbed and pulled over the square edge of a plank; every part of the skin must be rubbed and worked; any hard spots may be softened by rubbing with the pickling fluid. This rubbing and pulling must be kept up until the skin has been worked dry, then the pelt side should be rubbed with tallow or other animal oil; all excessive grease should be removed by hot corn meal. Brush and comb out the fur and the skin is ready.

The Michigan Department of Agriculture requires all fertilizers sold in the state to be licensed with them. Among other things, it requires that the name or brand and analyses be printed on each bag. This is for the protection of the farmer and reliable fertilizer companies. Always insist on knowing the analysis before buying, cheaper furs and those for which there buy only high analysis goods and thereis no market, it is a waste to throw by get your units of plant food as

Radio Department

SUMMER RADIO TO BE GOOD.

THE miserable squeaking and howling of the radio set during the summer months will soon be a thing of the past.

Radio engineers have been trying to develop static filters of all descriptions to be used in connection with receiving sets, but the cure for the static pest has not been discovered in that quarter. The solution to the problem has been found in the form of increased power at the broadcasting

Until very recently, but few broadcasting stations employed more than 500 watts or one half kilo-watt. During the summer months it became more or less difficult for even these stations to pound through the static, but now we have a number of stations employing 1,000 watts power, and at least one, perhaps more, which is now using 1,500 watts and which is equipped to use 5,000 watts just as soon as the government will permit it to do so.

With 1,500 watts power, a station can come booming through any kind of static and we have every reason to believe that radio receiving this summer will be just as good as it was last winter. Extra power will do much to improve reception and general satisfaction with the receiving apparatus.

RADIO PLAYS BIG PART.

 $R^{
m ADIO}$ played a big part in the recent tragedy in Sand Cave where Floyd Collins, the famous cave explorer, rests in his rock tomb. Both broadcasting and receiving sets did their share in informing millions of radio listeners of the developments in the attempts to rescue the most-talkedof-man of the present age.

Telephone lines carried the news to the broadcasting stations by way of the newspaper offices. One radio editor from a Cincinnati paper covered the story of his paper and his graphic descriptions of his experiences inside the cave were broadcast.

Not only was radio used to broadcast news of the rescue work, but a radio receiving apparatus was constructed and used to determine if Collins were alive or dead.

WKAR PROGRAM.

Monday, March 30—12:00 noon, weather forecast; 7:15 p. m., agricultural extension school; 8:00 p. m., educational program (M. A. C. faculty). Tuesday, March 31—12:00 noon, weather forecast; 7:15 p. m., agricultural extension school.

Wednesday, April 1—12:00 noon, weather forecast; 7:15 p. m., agricultural extension school; 8:00 p. m., musical program.

musical program.
Thursday, April 2—12:00 noon, weather forecast; 7:15 p. m., agricultural extension school.
Friday, April 3—12:00 noon, weather forecast; 7:15 p. m., agricultural extension school.

Saturday, April 4—12:30 a. m., special dance program (Pastime Players).

OTHER RADIO PROGRAMS.

WWJ, Detroit News, Detroit, Mich. WWJ, Detroit News, Detroit, Mich., 352.7 meters. Physical exercises daily at 8:00 a. m. Talk on "Tonight's Dinner," at 9:30 a. m. Weather forecasts daily at 10:25 a. m., Arlington time at 11:55 a. m. Musical program every noon. Detroit News Orchestra daily at 3:00 p. m. Market reports at 3:55 p. m. Dinner concerts at 6:00 p. m. and concert programs at 8:00 p. m.

p. m. Dinner concerts at 6:00 p. m. and concert programs at 8:00 p. m. daily except Saturday and Sunday. Sunday services at 11:00 a. m and 7:20 p. m. Detroit News Orchestra every Sunday afternoon at 2:00.

WCX, Detroit Free Press, Detroit, Michigan, 516.9 meters. News bulletins daily at 2:00 p. m. 2:15 p. m., live stock and municipal markets quotations. 2:20, government weather reports. Detroit and Chicago grain markets. 4:15 p. m., concert. 6:00 p. m., dinner concert. 7:00 p. m., talk. 8:30 p. m., concert. On Tuesdays, 10:00 p. m., Red Apple Club. Saturday night, stient.

"GOOD EQUIPMENT MAKES GOOD FARMER

Standardize on Good Equipment

HERE is a dealer in your town who has in his store many modern farm machines called by the name "McCormick-Deering." When you make new investments in farm equipment it will pay you to stick to this dealer and with these machines-to standardize on the McCormick-Deering line. Here are some of the benefits that will be clear to you during many coming seasons:

Quality. These machines are the result of 94 years of experience and betterment. They are as near perfect as human skill can make them. They are the standard of the world, famous for dependability and long life.

Service. The value of McCormick-Deering equipment is always greater because of the service that stands ready behind every McCormick-Deering machine. No matter how old your machine, this Company assures a helping hand in case of need. We are furnishing repairs today for McCormick and Deering binders and mowers that have worked through forty seasons.

Unit Operation. In these days of big operations and of power farming, be sure that your farm machines work together as a unit and like one machine. McCormick-Deering tractors and the many drawbar and belt machines are designed and built to work together. Matters of capacity, equipment, adjustment, hitches, etc., are all worked out for handy, fast, unit operation. Each new method and machine you adopt fits in without delays

or extra expense when you use McCormick-Deering machines.

Interchangeable Units and Parts. Standardization in McCormick-Deering manufacture enables you to make emergency repairs and so save valuable time. A great many of the parts in McCormick-Deering machines are being made so that they will be interchangeable between one machine and another. This advantage may sometime mean hundreds of dollars to you in the midst of the heavy summer season.

Standing with the Dealer. The McCormick-Deering dealer is in position to give you the best of co-operation. It will pay you to confine your purchases to the one dealer and make of yourself a favored customer. Scattered purchases cannot make you an important customer with any dealer.

Re-sale Value. McCormick-Deering equipment always stands high in re-sale and trade-in values. Notice how the bidding goes at auctions when a McCormick-Deering machine is put up.

Remember that it is "good equipment" that "makes a good farmer better," and that McCormick-Deering is the old reliable line. Standardize on farm equipment as the wise manufacturer does when he buys materials and factory equipment, and when he builds the product he sells. Standardize as big companies do when they buy fleets of motor trucks. Standardize on equipment as the good farmer does on breeds of livestock. They all standardize and so simplify their operations. It is good business all around.

International Harvester Company

606 So. Michigan Ave. of America (Incorporated) Chicago, III.

93 Branch Houses in the U.S.; the following in Michigan Farmer territory—Detroit, Grand Rapids.

Green Bay, Jackson, Saginaw.

M°CORMICK-DEERING FARM MACHINES IMPLEMENTS

Lime and Fertilizer Sour soil means poor crops. Experts agree fertilizer is useless on sour soil—it must have lime. The "Holden" Spreader makes bigger crops. Guaranteed to handle lime in any form, fertilizer, phosphate, gypsum, wood ashes or crushed shells. Cannot Clog. Try Spreader 10 days Free. The Holden Lime and Fertilizer Spreader will make your soil healthy and productive. Spreads twice as far as any other, its present such as the stackes to any wagon or truck. No holes to bore. Spreads evenly 100 to 10,000 lbs. per acre Handle material only once, from car to field. Get literature and low prices now and ask about 10 Day Free Trial.

THE HOLDEN CO., Inc.
Dent 281 Peoria Illinois

SPREADS 16! FEE



PULVERIZED LIMESTONE

Finely Pulverized High Calcium Limestone, either in bulk or bags. Highest grade sold in Michigan. Campbell Stone Co., Indian River, Mich

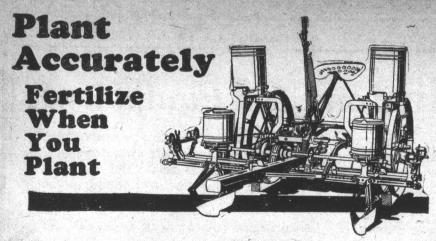
FOR SALE V

Choice Seed Corn 1000 bu. 100-day Improved Yellow Dent; 300 bu. Lancaster County Sure Crop; 200 bu. Early White Cap, nearly all 1923 Crop, above 90% germination. Write for price, Sample and Circular. Order early to save money. SHULL FARM, Box 12, Tullytown, Bucks Co., Pa.

WHERE FARMING PAYS

Five fine old plantations in one of the most fertile sections of Georgia have been cut up into small farms and attractive buildings erected. Competent County Agent will advise settlers as to farming and marketing. Improved roads, good schools and many advantages of a progressive community. Level or rolling land. Good sandy loam soil. All general crops do well, truck and fruit crops make big returns. Dairying pays well on nine-months pasture and winter feed crops. Delightful climate, mild winters, pleasant summers, healthful location, plenty of rainfall. Farms for sale at low prices and easy terms. Profits from farm will pay for it in few years.

Write to W. E. Price, General Immigration Agent, SOUTHERN RAILWAY, Washington, D. C., Roem 650, for full information about How to Make Money on Southern Farms.



When you buy a John Deere No. 999 Corn Planter with fertilizer attachment, you get the advantage of a corn-dropping device that plants as accurately as you can plant by hand, plus the advantage of being able to distribute fertilizer at the same time the corn is planted.

JOHN DEERE No. 999 Corn Planter With Fertilizer Attachment

Gives the kind of planting that means rapid growth from the very beginning—early maturity and more bushels per acre.

The No. 999 handles up to 700 pounds of fertilizer per acre. Fertilizer can be checked or drilled. Does not come in contact with

The No. 999 drops the desired number of kernels in every hill. Instant change in drop to plant two, three or four kernels per hill. Instant change to drilling and back to hilling. Nine drilling distances obtained without changing plates. Handles a big variety of seeds. Automatic marker. Pea and bean attachment extra. Sold by John Deere

Do not confuse ACCU-RATE planting with av-erage planting. Average planting is a hit-and-miss method. Accurate plant-ing means putting the de-sired number of kernels in every hill with no misses.

Be sure the planter you buy is a John Deere No. 999. Write for literature. Address John Deere, Moline, Ill., and ask for Booklet AH-422.

THE TRADE MARK OF QUALITY MADE FAMOUS BY GOOD IMPLEMENTS

Reliable Fruit Trees

Guaranteed to Grow Seeds, 3-4 ft. Apple Trees 25c. 3-ft. Peach Trees 20c each Postpaid. Growers of Fruit Trees, Berry Plants, Shrubbery and Grape Vines. Send for 1925 Catalog today. CLYDE, OHIO. ALLEN'S NURSERIES & SEED HOUSE, Geneva, O.



ALFALFA

Radio Talks on Good Seed

Some Good Discussions Broadcasted by WKAR

ORE information about seed," was the keynote of the activities of Better Seed Week, which has now drawn to a close. Prominent farmers, crops specialists at M. A. C., farm pages of the daily and weekly newspapers, all contributed to the success of the special week which resulted in part from a suggestion for Better Seed Week made by the Michigan Farmer some time ago.

made by the Michigan Farmer some time ago.

Professor Cox Opens the Series.

The principal feature of the Better Seed Week activity was the radio program broadcast over the M. A. C. radio station, WKAR. Professor J. F. Cox. of the Farm Crops Department of the Michigan Agricultural College, opened these radio discussions, Monday night, by telling of the national seed situation and the work being done by cooperative seed distributing organizations throughout the eastern, northern and corn belt states to insure dependable seed of known origin to their farmers. Professor Cox is, at present, on leave of absence from the Agricultural College, acting as executive secretary of the Federated Seed Service, an organization dealing in seed of known origin.

Ten Years' Experience.

Garfield Farley, Albion, Michigan, farmer, who is president of the Michigan Crop Improvement Association, spoke the same night on the value of the improved varieties under farm conditions. Mr. Farley has for over ten years, been using varieties developed by the Michigan Agricultural College and produced under inspection by the Michigan Crop Improvement Association, and has found them to be of decidedly superior value on his farm. No Excuse for Inferior Seeds.

H. C. Rather, of M. A. C., secretary of the Michigan Crop Improvement

decidedly superior value on his farm.

No Excuse for Inferior Seeds.

H. C. Rather, of M. A. C., secretary of the Michigan Crop Improvement Association, also spoke Monday, telling of the work of that organization in maintaining the purity, quality, and vigor of the varieties which the Michigan Agricultural College develops. He stated that pure seed of the best adapted varieties is now available in sufficient quantity so growers need have no excuse for using inferior seed.

Good Seed Overcomes Adversities.

Tuesday night's radio program was devoted to special seed corn discussions. D. F. Rainey, of the Farm Crops Department of M. A. C., led these with a discussion of the valuable lessons to be secured from the Michigan 1924 Corn Contest, of which he was director. He pointed out that, despite the unfavorable corn growing season of 1924, growers who used seed of improved varieties; carefully dried and tested for germination, had still been able to produce unusually profitable crops, three of them using ear-tested seed having produced better than eighty bushels of shelled corn per acre.

acre.

How Seed Corn is Prepared.

Paul Clement, of Britton, Michigan's leading seed corn producer, told of his methods of field selecting, drying, and ear-testing seed corn in quantity. Mr. Clement is one of Michigan's best informed farmers on seed corn germination and his methods of seed corn handling have been giving unusual success with the crop.

Seed Corn Situation Serious.

J. R. Duncan, corn breeder at M. A.

Seed Corn Situation Serious.

J. R. Duncan, corn breeder at M. A. C., completed Tuesday night's program with a discussion of the present serious situation insofar as seed corn germination is concerned. He emphasized the use of acid phosphate, high grade seed corn, early field selection, and careful drying and storing of seed in order to avoid similar situations in the future. Much of the seed corn sent in by the growers to be tested by Mr. Duncan, this year, has been below fifty per cent in germination.

Potato Specialists Talk.

Michigan's peculiar diversification

Michigan's peculiar diversification of crops was emphasized in the radio program of Wednesday night, this being designated as "Special Crops Night." H. C. Moore and J. W. Weston, potato specialists at M. A. C, told

ton, potato specialists at M. A. C, told particularly of the influence of good seed in securing more profitable yields of potatoes, as well as a high quality potato which could more readily be sold on a profit on the market. "Potatoes grown from Michigan certified seed in this as well as other states, have been of much higher quality," said Mr. Weston, "and if Michigan is to hold her market in competition with potatoes from Minnesota, Wisconsin, New York and Pennsylvania, she must have a quality program, for quality sells."

Mr. Moore stated that certified seed

Mr. Moore stated that certified seed of the Russet Rural, White Rural, Green Mountain, Irish Cobbler, and Early Ohio varieties is obtainable in quantity in this state.

Robust Beans Lead.

H. R. Pettigrove, Michigan's bean specialist, told of varietal tests conducted by the Michigan Agricultural College over a period of four years, in which the Robust variety of white navy beans had an increased average yield of seven bushels per acre over the other varieties in the test. He also discussed the growing of red kidney beans, which find considerable higher market than do the rest of the Michigan beans. The dark red kidneys, according to Mr. Pettigrove, find greatest favor on the market, but the light red kidneys, particularly coming from the Wells Improved strain, are less susceptible to disease and in unfavorable seasons are apt to give better yields.

ter yields.

Plant the Beets Early.

Mr. C. E. Cormany, in a discussion on sugar beet culture, emphasized the use of manure and commercial fertilizer, (the latter high in phosphoric acid and potash) careful cultural methods, and early planting. The early planting, in particular, has given exceptionally good results in the experiment trials conducted at the M. A. C.

A. C.

Advises Permanent Program.

In Thursday night's small grains' program, Ralph Arbogast, prominent southern Michigan farmer, told his radio listeners of the need for a better balanced farm program, in which acid phosphate, alfalfa, and live stock played an important part in building up the fertility of the soil. Mr. Arbogast expressed his belief in a permanent farm program balanced as to production and marketing rather than the guess-and-jump type of production and marketing program which some farmers follow, which so frequently results in their making the wrong guess and jumping into a low market with a large production.

Increasing the Seed Supply.

E. E. Down, plant breeder at M. A.

Increasing the Seed Supply.

E. E. Down, plant breeder at M. A. C., told of the crossing, breeding, and careful selection work which has resulted in leading Michigan crops varietles, each adapted to its own particular need; while Mr P. R. Miller, of M. A. C., supervisor of inspections of the Michigan Crop Improvement Association, told how that organization produced these varieties in quantity and made pure seed of them available.

Alfalfa Experience.

The concluding radio program of Friday night featured clover and alfalfa. The discussion was led by I. R. Waterbury, Managing-Editor of The Michigan Farmer.

Mr. Waterbury told how his first at-

Michigan Farmer.

Mr. Waterbury told how his first attempts in growing this crop resulted in a failure, but how later after an application of lime and inoculation of both the seed and the soil, to provide nitrofying bacteria; and after the use of northern grown acclimated seed, his efforts were successful. Mr. Waterbury's present method of seeding alfalfa is to put it on land disked up in the spring following a potato crop the previous year, using his alfalfa with about a bushel of oats per acre. Since his earlier experience, this method has never resulted in an alfalfa failure.

failure.
Northern Seed Proves Best.

Northern Seed Proves Best.

The discussion of Professor C. R. Megee, forage crops specialist at M. A. C., backed Mr. Waterbury's experiences insofar as acclimated seed is concerned, by showing that in the varietal trials conducted by the Agricultural College, the northern grown common and Grimm alfalfa seed, had produced profitable alfalfa stands, but the southern grown seed has been a failure. Other trials by Professor Megee showed much of the imported clover seed, particularly that from Italy, to be unadapted to Michigan conditions, while Michigan grown seed had produced highly satisfactorily for both a hay and seed crop.

Alfalfa in Cloverland.

Alfalfa in Cloverland.

Alfalfa in Cloverland.

L. D. Kurtz, of the M. A. C. Extension Staff, who has been taking care of the crops work in the Upper Peninsula, told of the rapid progress being made by northern Michigan growers in alfalfa production—Menominee county, alone, having seeded more than 1,000 acres to pure Grimm alfalfa. In trials conducted by Mr. Kurtz, in the Upper Peninsula, the Grimm alfalfa gave an average yield of four tons per acre for two cuttings.

It is believed that the radio program of Better Seed Week reached one of the largest radio audiences which ever listened to farm programs. Nearly 1,000 registrations of radio owners were made with the college, while many of these invited in others and held group radio meetings, so that probably more than 10,000 people listened to the discussions of the week.

Looking Ahead In Farming

What the Outlook is for Some Michigan Products

By J. T. Horner

HE farmer's profits at the end in response to present market condiof the crop year depend upon three things: (1) The quantity of produce he has to sell; (2) the market price; (3) the costs of operation.

The quantity of produce which there is for sale will depend upon weather conditions and the acreage. For a large income the individual farmer will want a large quantity of produce. But a large production will tend to lower the price. Large crops and high prices seldom come the same year.

For the individual farmer the quantity for market will depend upon his acreage, the season, and the methods of production. While it is not easy to change the usual program greatly, it is possible for each farmer to modify his program to a certain extent. If the outlook for the bean market is good and the potato market poor, acreage adjustments can be made.

In-looking forward to the coming

tions will have a depressive effect on the 1925 price.

The individual farmer can have some influence on his wheat profits if he follows the proper methods. Concerning the wheat situation for 1925, the United States Department of Agriculture says:

"Much can be done by growers to increase the price of wheat regardless of the market situation. Careful attention to the quality and condition of the wheat when it leaves the farm adds considerably to the price; and the elimination of undesirable varieties in favor of those which yield well and command a premium on the market assures higher returns per acre with no increase in the cost of production. The quality and price of the wheat can be increased by preventing heat damage in storage through the use of expensive ventilators, and by



Just Now the Farmer with a Good Herd of Swine is Peculiarly Fortunate.

year and in planning the year's plantings the farmer wants to know what the price outlook is.

General business conditions will have some effect on the prices for 1925 agricultural products. While there has been a stimulation of business during the past few months forecasters do not venture an opinion that the present rate of business activity will continue throughout the year. It must not be assumed, however, that we are now enjoying unbounded prosperity. January, 1925, was 0.9 per cent above that of December, 1924, and was three per cent less than that for January, 1924. The decrease in payroll for the - same periods was 5.3 per cent.

Employment in the automobile industry in January, 1925, was sixteen and one-half per cent below that of January, 1924, with a decrease of twenty-four per cent in payroll.

In the east north central geographic division (Michigan is located in this divsion) the decrease from January, 1924, to January, 1925, was greater than for the country as a whole, being 7.2 per cent in number employed and nine per cent in payroll.

Present business conditions and the outlook for the coming year do not indicate that the domestic demand for the 1925 crops will be any better, if as good, as for those of the past year. Farmers, therefore, should not build too great hopes upon a reviving business putting more money into their pockets this year.

Conditions in Europe are generally somewhat better than a year ago and the demand for farm products ought to be strengthened. On the other hand, these countries will produce as much of their requirements as possible. There will also be rather keen competition from Australia, Canada and Argentina in the wheat market. Competition in meat and dairy products will continue strong.

On the demand side, both foreign and domestic, there seems to be little hope for strengthening prices. The individual farmer, then, must plan his production to best suit the conditions as they exist.

Wheat.

It is too late for the Michigan farmer to adjust the wheat acreage. The present high prices of wheat will surely not prevail during 1925 if there is as likely to be found in the advertisan average crop this year. An undue ing as in the reading columns of the expansion of the spring wheat acreage American press.

removing dockage on the farm with simple cleaning apparatus. The screenings may be turned to valuable account as a feed for live stock."

Hogs.

Hog production should not be planned upon the present market price when this year's crop gets to the market place.

On January 1, 1925, there were approximately 54,000,000 hogs in this country, as compared with about 82,-000,000 the year before. There will be fewer number of pigs born this spring-(the U.S. Department of Agriculture estimates from six to eight million less). On January 1, 1925, there were 252,000 (about twenty per cent) fewer hogs in Michigan than on January 1, 1924. Indications are that hog prices will rise during the coming year, and a further reduction in hog production is not advisable from the standpoint of profitable and wellbalanced farming. Also, it is undesirable from the standpoint of the needs of the domestic market.

It seems highly desirable for the farmer to make plans to increase his fall crops of pigs. It is not likely that the shortage of hogs will be overcome and lower prices result by the time this fall crop is ready for market. Hogs seem to offer an opportunity for profit. However, expansion must be undertaken with reason.

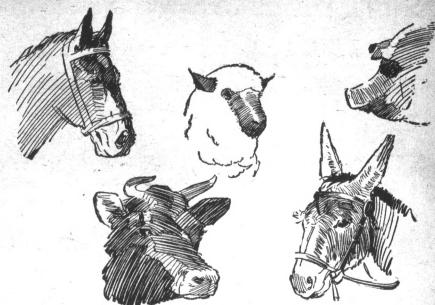
Beef Cattle.

Production of beef cattle can not be so readily changed to meet changing market conditions as can that of hogs. There were fewer beef cattle in the United States on January 1, 1925, than any time during the last ten years. The low prices of the past five years have made beef production unprofitable.

The indications are that there will be higher prices for beef cattle during the coming year. The man with the better grades of beef will, no doubt, enjoy the greatest price increases.

Note.—Next week the outlook in dairying, the sheep and wool business, feed supplies and sugar beets will be

The heralders of progress are quite



How much salt should livestock eat?

The Diamond Crystal

Salt Guide

Diamond Crystal Shaker Salt (free flowing, in handypouring cartons) or Diamond Crystal Table Salt (in boxes or sanitary muslin bags).

Diamond Crystal Coarse Salt (in 35-lb. and 70-lb. bags).

Diamond Crystal Flake or Fine Flake Salt (in 280-lb. paper-lined barrels and in bags).

Diamond Crystal Cheese Salt (in 280-lb. paper-lined barrels).

Diamond Crystal Flake Salt, Diamond Crystal Fine Flake (Table Salt) or Diamond Crystal Fine Salt (in 280-lb, barrels of bags).

For Livestock, Salting Hay, Killing Weeds, etc.

Solvent Hay, Common Salt (in 280-lb. barrels, in bags and in 50-lb. blocks).

For Table, Kitchen and Household Use

For Curing Meats

For Butter-Making

For Cheese-Making

For Canning Vegetables and Fruits

Every farmer knows that without enough salt his stock will lose weight; that their whole physical condition will be endangered.

Butwhatisthe correct amount of salt to feed them? That is a vital question. Horses eat more than cows, sheep eat more than swine; no two horses have the same salt requirements—no two cows, no two sheep, no two pigs. Moreover, the salt needs of stock vary with the changes in the weather as well as with the variations in their feed.

Thousands of stockmen have solved this prob-

thats

all Salt."

lem by allowing their animals free access to salt at all times, making sure that the salt was not full of the bitter impurities which make some salt so disagreeable. They have found that stock, given a free amount of pleasant-tasting salt, will eat the right quantity for their particular needs.

The ideal stock salt

There is one salt that successful farmers use regularly for their stock -one exceptionally free from the impurities that make some salt strong and bitter. This is Diamond Crystal Common Salt. Made from a brine pumped from salt beds 2,000 feet deep, Diamond Crystal is especially clean and pure. Animals will eat all they require. It is the ideal salt for conditioning livestock. And it costs no more than ordinary salt.

A salt guide for your use

There is a Diamond Crystal Salt forevery use. The guide at left shows you which one to use for each farm need.

Diamond Crystal Salt for table and cooking use, for butter-making, meat - curing, etc., is further refined by a special, patented process which no other manufacturer can use. It is the only salt that government tests

show to be always over 99% pure. The same process makes it in the form of delicate flakes instead of hard, gritty cubes. Thus, Diamond Crystal dissolves quickly, develops finer flavors in food, and cures meat evenly and thoroughly.

Use the salt guide the next time you buy salt. If you don't know where to get Diamond Crystal in your community just write us.

Diamond Crystal Salt Company. since 1887 makers of Diamond Crystal, "The Salt that's all Salt", St. Clair, Mich.

Free—Many women have been interested in our booklet "101 Uses for Salt". We will be glad to send it free upon request.

The Salt)IAMOND

There is a Diamond Crystal Salt for each farm need. No. 1 Common, for stock feeding, comes in 280-lb. barrels, in bags and in 50-lb. blocks

(PYSTAL SALT (RYSTAL SALT COARSE

Soil Clinics in S. W. Michigan

In an effort to extend the service of the Michigan Agricultural College to the very doors of the citizens of this state, the soils department has just completed plans for the operation of a soil fertility train on the New York Central Lines in southwestern Michigan. The main feature will be a laboratory car which will be completely equipped to test all samples of soil and marl which the farmers may bring in. Tests for calcium, potash, organic metters of a will be worden as the michigan of the Michigan of the operation of the Michigan of the operation of the Michigan of the operation of a soil fertility train on the New York Central Lines in southwestern Michigan. The main feature will be completely equipped to test all samples of soil and marl which the farmers may bring in. Tests for calcium, potash, organic metters of a will be worden as the michigan of the operation of a soil fertility train on the New York Central Lines in southwestern Michigan. The main feature will be a laboratory car which will be completely equipped to test all samples of soil and marl which the farmers may bring in. Tests for calcium, potash, or the Michigan of the operation of a soil fertility train on the New York Central Lines in southwestern Michigan. The main feature will be completely equipped to test all samples of soil and marl which the farmers may bring in. Tests for calcium, potash, or the Monday, April 13, morning, Cassopolis; evening, Jones.

Saturday, April 10, morning, Cassopolis; evening, Jones.

Monday, April 14, morning, Dowagia; afternoon, Decatur.

Wednesday, April 15, morning, Cassopolis; evening, Jones.

Saturday, April 11, afternoon, Niles. Monday, April 13, morning, Cassopolis; evening, Jones. just completed plans for the operation of a soil fertility train on the New Michigan. The main feature will be a laboratory car which will be comsoil and marl which the farmers may bring in. Tests for calcium, potash, organic matter, etc., will be made and a written report handed to each farmer along with recommendations for handling the field from which the soil was taken. Farmers are urged to bring in their soils and samples and consult with the soils specialists in this laboratory car.

"If any one doubts the need of a soil-clinic in that section of Michigan, he need only compare the yields obtained from those farms last year with those of twenty-five years ago. On every hand the questions are raised, Why can't we raise wheat like we used to? What is the matter with our clover stands?' Our greatest natural resource-soil fertility-has been dissipated and wasted away, and this section of Michigan is seriously in need of a 'Soil Doctor'." So says Dr. M. M. McCool, Professor of Soils, who is actively sponsoring this project.

In keeping with its general policy of encouraging anything that tends toward better agriculture, the New York Central Lines are cooperating in this project by providing the coaches and the transportation for the same. Its agricultural department is also assisting in carrying out the details of the project.

Besides the laboratory car, there will be motion pictures, charts, exhibits, and lectures to make anyone's visit to the train both instructive and worth-while. Samples of fertilizing material and limestone will be on display.

This train is scheduled to leave Grass Lake on April 7 and will continue to travel until April 21, when it reaches Eaton Rapids. At least two hours will be allowed for each place, thus giving abundant time for every farmer to have his samples tested and to consult with the soils specialists from the college.

Following is the itinerary:

Schedule of Soil Fertility Train. Tuesday, April 7, morning, Grass Lake; afternoon, Jackson.

Wednesday, April 8, morning, Concord; afternoon, Tekonsha; evening, Union City.

Thursday, April 9, morning, Colon; evening, Centerville.

Monday, April 20, morning, Quincy; afternoon, Coldwater.
Tuesday, April 21, morning, Albion; afternoon, Eaton Rapids.

THE FARMER'S DISADVANTAGE.

THE address of Mr. Frank O. Lowden, of Illinois, president of the Holstein-Friesian Association, at Escanaba, last January, was a notable utterance. He pointed out that, although the American farmer produces large fractions of several of the world's most important farm crops, such as corn, cotton, wheat, wool, and other products, yet in marketing these great staples, the farmer is at a great disadvantage.

Theoretically he should take his chances with all other business men with the market as he finds it under the law of supply and demand; but when prices are fixed at a just level under this law, there is assumed equality of bargaining power on the side of both buyer and seller-equality of knowledge of market conditions-ability to refuse to sell when conditions are adverse-equality of organizing power. Of course, the farmer has no such equality with the buyer of his products. The buyers are organized, they employ highly trained agents, they are well informed on market conditions the world over. What chance, asks Mr. Lowden, has the individual farmer off by himself on his own farm, with the buyers of his products under such conditions? The law of supply and demand cannot work effectively and fairly under such conditions. Yet, he said, there are business men who object to farmers' organizations and to farmers cooperating.

He pled with the business men not to thwart but to encourage agricultural organization and cooperation as a result of which we shall maintain our rural life and population in a prosperous and happy condition, not simply for the good of the farmer but also for the nation as a whole.

Salesman who can sell are the gods of the hour, both in the field of industry and of agriculture.

Sanitary Outbuildings

Painting Helps Prevent Livestock and Poultry Diseases

not directly mean an increase in tuberculosis, cholera and numerous oth- tion will cost much time and money. er animal and poultry diseases which washable, light colored much to prevent disease.

Barns, cattle barns, hog houses and poultry houses which are unpainted absorb moisture. This works through the wood, rotting it and making interiors cold and damp. Animals housed in such buildings, especially young animals or poultry, will have as pneumonia. Disease germs and in well-lighted, clean surroundings.

HE lack of paint on the exterior vermin thrive in dark, damp and and interior of buildings which poorly ventilated places. Let germs house live stock or poultry may and vermin once gain a foothold in such surroundings and their eradica-

Paint prevents the decay of buildcost farmers such huge sums annually, ings, and in this way makes them less but there is no gainsaying the fact apt to harbor germs and germ carthat in the prevention and treatment riers. Paint prevents some diseases of sickness, cleanliness is a vital fac- by killing germs. Freshly painted surfaces are easier to clean and there walls on the interior, and a moisture- is more incentive to keep them soproof paint film on the exterior of this tends to lessen disease. The restructures for housing animals, do sult is healthier live stock. In paint ing the interior of structures for housing animals a paint containing non-poisonous pigments (there are many such) should be used.

Well painted buildings are generally better kept and the live stock, being better cared for, is less subject to disease. The very fact that a building less physical resistance to disease and is well painted gives more pride in colds. Paint will not prevent tuber- the condition of the interior and the culosis, cholera or other diseases, but care of stock. An animal will pay it will help in fighting them, as well greater returns in every way if housed

Shortles, 25 Quiescent Current Separator

The Allsteel Separator [600 lbs. per hour]

Turns easier than any other known separator

Joseph Beckinbaugh, Richmond Furnace, Pa., says his twoyear-old boy turns it. That is younger than we recommend, but it indicates the ease of turning. One finger turns it "like a feather." Wife, please take notice!

Gets more cream and more butter than any other known separator

It skims equally clean at widely varying speeds. Other separators may skim clean at a fixed speed, but no other separator does at all speeds. It is humanly impossible to always

Made of wrought steel - not clumsy cast iron - and wonderful Duralumin, open blade - rustproof sanitary skimming device

Sharples Allsteel Cream Separator

These Allsteel Separators are light and neat looking, but durable and efficient beyond comparison. A short lecture, but well worth reading

There is a vast difference in cream separators of different makes, and don't think there is not.

The advertising claims of all read alike because language is as free to one

person as another. Neither the words nor the amount of advertising make it better. We are our-selves large advertisers, but that is not what makes our separators better.

A trial side by side with others will tell the tale

Never order any separator on trial unless you order also an Allsteel on trial beside it, so that you may know what should be expected of a separator.

This little Allsteel Separator will look light and small when you get it-so does your watch look small beside a Big Ben, but the watch will last longer and keep better time. But the little Allsteel is a wonder for work and will last a lifetime. We build exactly the same skimming bowl into a heavy cast iron frame and gears. Below is the picture of it. It is an excellent separator. It would please you better than any other kind of separator except the Allsteel.

This heavier, larger separator will skim faster and better and will satisfy you better and will turn easier than any competing separator of like capacity, but not as easily as the Allsteel. Either will last for years.

Take our word for it. We have been selling you separators for over forty years. Our reputation is back of what we say. What we sell you has to please you, has to satisfy you in every way or you return it and get all your money back—if you have paid before trial.

A \$100 Allsteel Separator

The famous Sharples Allsteel Cream Separator-600 lbs. capacity per hour —is a \$100 Separator and the best Separator for \$100 that anyone ever bought. We have never had a price below \$100 on this separator, and thousands are at work giving supreme satisfaction to their purchasers.

We give thirty days' absolutely free trial, together with an allowance of \$15 for your old separator and twelve months in which to pay

by easy installments.

But now we are overstocked with old second-hand sepa-

rators of every make and cannot dispose of the surplus except for old iron.

For that reason we will, for a time, accept your order for a \$100 Allsteel Separator at \$88-you keeping

Or if you pay cash at end of 30 days' free trial, send but \$82.

Ann.

A, for a tin.

A you have one.

Ark X in square on coupce showing plan of purchase you, then sign and mail to us.

Heavy-build Separators

Made in Two Sizes

700 lbs. per hour—\$100
1650 lbs. " \$165

We make a complete line of Tubular separators from 200

Tocarr

Total ark X in square on coupce showing plan of purchase you, then sign and mail to us.

Heavy-build Separators

We make a complete line of Tubular separators from 200

Tocarr

To go of the province of the pro Mark X in square on coupon showing plan of purchase you Separator Co. West Chester, Pa.

or San Francisco, Calif.

complete line of ators from 200 crams from 200 crams from 200 from 500 from

WORLD EVENTS IN PICTURES



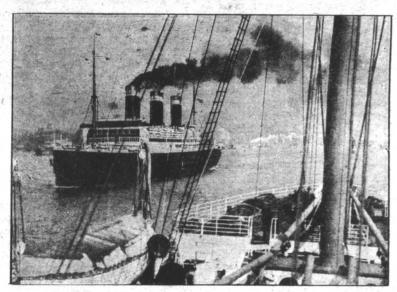
Mrs. Nicholas Longworth and little Paulina, who arrived as a Valentine to the Longworths.



President and Mrs. Coolidge, with Senator Charles Curtis, of Kansas, at right, as they were leaving the White House on the morning of March 4, for the inauguration ceremony at the Capitol.



Senator Moses, of New Hampshire, was elected President pro tem of the sixty-ninth congress.



Shining from keel to pennant, the S. S. Leviathan, largest of ocean greyhounds, is steaming out of New York harbor, bound for Europe on the first voyage of 1925.



Queen Marie of Roumania, with her two pets each with a pedigree almost as long and royal as her own, a magnificent Orloff trotting stallion, and a spaniel.



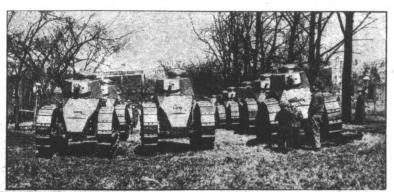
Kermit and Theodore Roosevelt second, are off to hunt big game in Eastern Turkestan, for the Field Museum, of Chicago.



Col. James Fechet, U. S. A., will succeed Gen. William Mitchell, of Army Air Service.



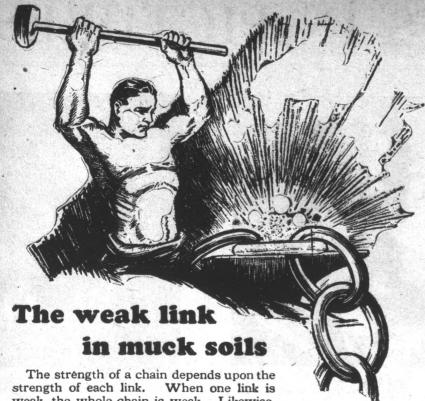
Leona Mason, queen of annual American Derby at Ashton, Idaho, and Tud Kent, the winner of the 1924 Derby.



These fifteen huge battle tanks manned by a total of fifty men from Camp Meade, took part in the inaugural parade in Washington, D. C., on March 4.



This view shows the machine that transmits pictures by wire from one city to another. This picture was transmitted from Washington to New York by the same method.



weak, the whole chain is weak. Likewise, the fertility of your soil depends upon each of the essential plant foods-

Potash-and sometimes phosphoric acid -is the weak link in muck soil. To produce good crops on muck soil, apply plenty of potash.

In Kent County, Michigan, Mr. N. Koster grew celery on four adjoining plots. The soil was muck with marl subsoil. His yields showed that 1000 lbs. per acre of a 2-7-10 mixture resulted in \$122.40 more income than when the same fertilizer minus potash was used. In other words-

MR. KOSTER'S EXPERIMENT WITH CEL-ERY ON MUCK SOIL SHOWED THAT POT-ASH COSTING \$6.00 PRODUCED \$116.40 EXTRA NET INCOME PER ACRE.

The Michigan Experiment Station is recommending the use of 1000 to 1500 pounds per acre of mixtures analyzing 2-8-16, 0-12-12, and 0-8-24 for muck soils in Michigan.

POTASH IMPORTING CORPORATION OF AMERICA

81 FULTON ST., Dept H 4

NEW YORK

FREE

For farmers interested in making big profits on muck soils, we have prepared a booklet called "Muck Lands." Your copy will

Your copy will be sent free on request. Write for it now. Baltimore San Francisco Genuine (German

When Writing to Advertisers Michigan Farmer Mention

Seles Agents: H. J. Baker & Bro., 81 Fulton St., N. Y.

Eureka, Potato Machines

Make Money for Potato Growers

Eureka Potato Machines take hard work out of potato growing. They reduce time and labor costs. They assure bigger yields.

Cuts uniform seed. Operates with both hands free for feed-

Riding Mulcher

Breaks crusts, mulches soil, and kills weeds when potato crop is young and tender. 8, 10 and 12, ft. sizes. Many other uses, with or without seeding attachment.

All machines in stock near you

Potato Planter

One man machines doing five operations in one. Over twenty-three years' success.

Insures the crop. Sizes, 4 or 6 rows. 60 to 100 gallon tanks. Many styles of booms. Potato Digger

Famous for getting all the potatoes, separating and standing hard use. With or without engine attachment or tractor attachment. Send for complete catalogue

EUREKA MOWER CO.

Box 1115 Utica, N. Y.





SO BIG-By Edna Ferber

COPYRIGHT, 1924, DOUBLEDAY PAGE & COMPANY

PANKNOEBEL seemed never to for a beer or a cup of coffee and a sandwich, was greeted by Chris, white-aproned, pink-cheeked, wide awake, swabbing the bar's shining surface with the thirsty cloth, swishing it with the sly rubber-tipped board. "Well, how goes it all the while?" said Chris. The earliest morning trader found Chris in a fresh white apron crackling with starch and ironing. He would swab the bar with a gesture of welcome, of greeting. "Well, how goes it all the while?"

As Selina entered the long room now there was something heartening, reassuring about Chris's clean white apron, his ruddy color, the very sweep of his shirt-sleeved arm as it encompassed the bar-slab. From the kitchen at the rear came the sounds of sizzling and frying, and the gracious scent of coffee and of frying pork and potatoes. Already the market men were seated at the tables eating huge and hurried breakfasts: hunks of ham; eggs in pairs; potatoes cut in great cubes; cups of steaming coffee and chunks of bread that they plastered liberally with butter.

Selina approached Chris. His round face loomed out through the smoke like the sun in a fog. "Well, how goes it all the while?" Then he recognized her. "Um Gottes!-why, it's Mis' De-Jong!" He wiped his great hand on a convenient towel, extended it in sympathy to the widow. "I heerd," he "I heerd." His inarticulateness made his words doubly effective.

"'I've come in with the load, Mr. Spanknoebel. The boy and I. He's still asleep in the wagon. May I bring him over here to clear him up a little before breakfast?"

"Sure!" Sure!" A sudden suspicion struck him. "You ain't slept in the wagon, Mis' DeJong! Um Gottes!—"

"Yes. It wasn't bad. The boy slept the night through. I slept, too, quite a little."

"Why you didn't come here! Why-" At the look in Selina's face he knew then. "For nothing you and the boy could sleep here."

"I knew that! That's why."

"Don't talk dumb, Mrs. DeJong. Half the time the rooms is vacant. You and the boy chust as well-twenty cents, then, and pay me when you got But any way you don't come in reg'lar with the load, do you? That ain't for womans."

"There's no one to do it for me, except Jan. And he's worse than nobody. Just through September and October. After that, maybe—" Her voice trailed off. It is hard to be hopeful at three in the morning, before breakfast.

She went to the little wash room at the rear, felt better immediately she had washed vigorously, combed her hair. She returned to the wagon to find a panic-strisken Dirk sure of nothing but that he had been deserted by his mother. Fifteen minutes later the two were seated at a table on which was spread what Chris Spanknoebel considered an adequate breakfast. A heartening enough beginning for the day, and a deceptive.

The Haymarket buyers did not want to purchase its vegetables from Selina DeJong. It wasn't used to buying of women, but to selling to them. Pedlers and small grocers swarmed in at four-Greeks, Italians, Jews. They bought shrewdly, craftily, often dishonestly. They sold their wares to the housewives. Their tricks were many. They would change a box of tomatoes while your back was turned; filch a head of cauliflower. There was little system or organization.

Take Luigi. Luigi peddled on the sleep, yet his color was ruddy, eyes north side. He called out his wares clear. The last truckster coming in through the alleys and side streets of Chicago, adding his raucous voice to the din of an inchoate city. A swarthy face had Luigi, a swift brilliant smile. a crafty eye. The Haymarket called him Loogy. When prices did not please Luigi he pretended not to understand. Then the Haymarket would yell, undeceived, "Heh, Loogy, what de mattah! Spika da Engleesh!" They knew him.

Selina had taken the covers off her vegetables. They were revealed crisp, fresh, colorful. But Selina knew they must be sold now, quickly. When the leaves began to wilt, when the edges of the cauliflower heads curled ever so slightly, turned brown and limp, their value decreased by half, even though the heads themselves remained white and firm.

Down the street came the buyerslittle black-eyed swarthy men; plump, shirt-sleeved, greasy men; shrewd, tobacco-chewing men in overalls. Stolid red Dutch faces, sunburned. Lean dark foreign faces. Shouting, clatter, tur-

"Heh! Get your horse outta here! What the hell!"

"How much for the wh · barrel?" "Got any beans? No, don't want cauliflower. Beans!"

"Tough!" "Well, keep 'em. I don't want 'em." "Quarter for the sack."

"G'wan, them ain't five-pound heads. Bet they don't come four pounds to the

"Who says they don't?" "Gimme five bushels them."

Food for Chicago's millions. In and out of the wagons. Under horse's hoofs. Bare-footed children, baskets on their arms, snatching bits of fallen vegetables from the cobbles. Gutter Annie, a shawl pinned across her ponderous breasts, scavengering a potato there, an onion fallen to the streets, scraps of fruit and green stuff in the ditch. Big Kate buying carrots, parsley, turnips, beets, all slightly wilted and cheap, which she would tie into bunches with her bit of string and sell to the real grocers for soup greens.

The day broke warm. The sun rose red. It would be a humid September day such as frequently came in the autumn to this lake region. Garden stuff would have to move quickly this morning. Afternoon would find it worthless.

Selina stationed herself by her wagon. She saw the familiar faces of a half dozen or more High Prairie neigh-These called to her, or came over briefly to her wagon, eyeing her wares with a calculating glance. "How you making out, Mis' DeJong? Well, you got a good load there. Move it along quick this morning. It's going to be hot I betcha." Their tone was kindly, but disapproving, too. Their look said, "No place for a woman. No place for a woman."

The peddlers looked at her bunched bouquets, glanced at her, passed her by. It was not unkindness that prompted them, but a certain shyness, a fear of the unaccustomed. They saw her pale fine face with its great sombre eyes; the slight figure in the decent black dress; the slim brown hands clasped so anxiously together. Her wares were tempting but they passed her by with the instinct that the ignorant have against that which is un-

By nine o'clock trading began to fall off. In a panic Selina realized that the sales she had made amounted to little more than two dollars. If she stayed there until noon she might double that, but no more. In desperation she har-

(Continued on page 437).



More people are talking about this Fine Car than any other Car in America

Of course people are talking about this new fine Overland with six cylinders. Of course they are drawn into liking and admiring and wanting this remarkable car. For motor car buyers these days are real students of quality, close judges of value—buying shrewdly and keenly after making shrewd and keen comparisons. Of The public was bound to admire the fascinating beauty of the new Overland Six. And bound to ap-

preciate its fine comfort and luxury. QThe power of this car is a joy. You can overtake and pass nine out of ten cars on hills, and likewise on the open road. In traffic the swift getaway of the new Overland Six makes cars around you seem listless and poky. QGreat smoothness is engineered into the engine. The wonderfully balanced crankshaft is ingeniously drilled to receive perfect lubrication at all speeds. And by ingenious developments in six cylinder design friction and wear have been minimized to the vanishing point. That means great endurance. Q You need but one look at the new Overland Six to know why it is receiving such an enthusiastic welcome. It has beauty and style, comfort and luxury, to a degree never before offered at such a low price · · · Willys-Overland, Inc., Toledo, O. Willys-Overland Sales Co. Ltd., Toronto, Can.

The Fine OVERLAND

With SIX Cylinders

WILLYS OVERLAND FINE MOTOR CARS

They Have Stopped Mistakes in Painting —with the help of the Farm Painting Guide



SHERWIN - WILLIAMS FARM PAINTING GUIDE



SURFACE	TO PAINT— USE PRODUCT NAMED BELOW	TOVARNISH- USE PRODUCT NAMED BELOW	TO STAIN— USE PRODUCT NAMED BELOW	USE PRODUCT NAMED BELOW
AUTOMOBILES	S-W Auto Enamel	S-W Auto Enamel Clear		S-W Auto Ename
AUTOMOBILE TOPS	S-W Auto Top and S-W Auto Seat Dressing			
BARNS, SILOS, OUT- BUILDINGS, Etc.	S-W Roof and Bridge Paint	:	S-W Preservative Shingle Stain	
BRICK	SWP House Paint S-W Concrete Wall Finish			Old Dutch Enamel
CEILINGS, Interior	Flat-Tone	Scar-Not Varnish	S-W Handcraft Stair Floorlac	Enameloid
Exterior	SWP House Paint	Rexpar Varnish	S-W Oil Stain	Old Dutch Enamel
CONCRETE	S-W Concrete Wall Finish		D-W SH SWIII	Old Duten Ehamer
DOORS, Interior	SWP House Paint	Scar-Not Varnish Velvet Finish No. 1044	Floorlac S-W Handcraft Stain	Enameloid
Exterior	SWP House Paint	Rexpar Varnish	S-W Oil Stain	Old Dutch Enamel
FENCES	SWP House Paint Metalastic S-W Roof and Bridge Paint		S-W Preservative Shingle Stain	ON BUCH Bramer
FLOORS, Interior (wood)	S-W Inside Floor Paint	Mar-Not Varnish	Floorlac	S-W Inside Floor Pa
Concrete	S-W Concreté Floor Finish			S-W Concrete Floo Finish
Porch	S-W Porch and Deck Paint			
FURNITURE, Indoors	Enameloid	Scar-Not Varnish	Floorlac	Old Dutcl. Enamel
Porch .	Enameloid	Rexpar Varnish	S-W Oil Stain	Enameloid
HOUSE OR GARAGE Exterior	SWP House Paint	Rexpar Varnish	S-W Preservative Shingle Stain	Old Dutch Enamel
IMPLEMENTS, TOOLS, TRACTORS, WAGONS, TRUCKS	S-W Wagon and Implement Paint	Rexpar Varnish		
LINOLEUM	S-W Inside Floor Paint	Mar-Not Varnish		S-W Inside Floor Pai
RADIATORS	Flat-Tone S-W Aluminum or Gold Paint			Enameloid
ROOFS, Shingle	S-W Roof and Bridge Paint Metalastic Ebonol		S-W Preservative Shingle Stain	
SCREENS	S-W Screen Enamel			C.W. Canana Paranal
WALLS, Interfor (Plaster or Wallboard)	Flat-Tone SWP House Paint			S-W Screen Enamel Old Dutch Enamel Enameloid
WOODWORK Interior	SWP House Paint Flat-Tone	Scar-Not Varnish Velvet Finish No. 1044	S-W Handcraft Stain S-W Oil Stain Floorlac	Old Dutch Enamel Enameloid
For Removing Paint and Varnish use Taxife—quick—easy—thorough—econom-	SHERW		ILAMS	For Cleaning Painted and Varnished Sur faces use Flaxoap

You can do the same.

Save the Farm Painting Guide, put it up on your wall in a permanent place, and then, every time you go to buy paint, varnish, stain or enamel, look at the "Guide" first.

The Guide simply makes it easy to select the RIGHT type of paint, of varnish, of stain and of enamel exactly as a color card makes it easy to select the right color; it stops mistakes in painting.

Be sure to look up "Paint Headquarters"

The store in your community displaying the "Guide" and carrying the correct Sherwin-Williams finishes is "Paint Headquarters." Look for the "Guide" in the window and inside the store.

The Sherwin-Williams Dep't of Home Decoration will gladly give you individual suggestions for your home if you write them. Ask for free booklet B450 and for free set of handsome color plates. If you want the most complete book on home decorating ever issued, 177 pages, many beautiful full-page decorative schemes in colors, send 50c (65c in Canada). Write The Sherwin-Williams Co., Dep't B435, 610 Canal Road, Cleveland, Ohio.





SHERWIN-WILLIAMS
PAINTS AND VARNISHES

Specify Opex for repainting your auto. Opex is the modern nitrocellulose lacquer with the satiny finish that will not scratch, mar or chip off. Actually improves with age. Dries quickly—car out of the shop in a few days. Wide range of colors. Be sure to ask your auto paint shop for Sherwin-Williams Opex.



For Cleaner floors with Less work

Armstrong's Linoleum Rugs

Wear longer-genuine cork linoleum clear through to the burlap back

The cost is so little

"Gracious me, am I too getting to be an old-fashioned drudge?

—am I needlessly missing the leisure, the laughter, the friendships I STILL have a right to? Surely there MUST be some easier-to-clean floor covering."

Armstrong's Linoleum Rugs are easier-to-clean. "2 minutes mopping and—CLEAN!" And they stay clean longer because an Armstrong Rug is always solid, genuine cork linoleum, clear through to the burlap back.

You just can't dislodge ground-in soil from a floor surface that splinters and chips off into pits and jagged hollows, without going back—hands and knees—to the old-fashioned, back-breaking scrubbing brush. So let's forget that, once and for all, and get an ARMSTRONG RUG.

ARMSTRONG CORK COMPANY

Linoleum Division

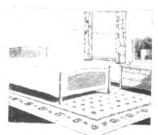
1002 Jackson St., LANCASTER, PA.



Sitting-room and Dining-room

All roads lead to the dining room and many the scuffling, soil-stained boots along the way. Three times a day a rush of feet, big and little, tracking carelessly over your floors! What more sensible, sanitary, and fresh-smelling than an Armstrong's Linoleum Rug for this heavy traffic room?

"2 minutes mopping and—CLEAN!"



Bed-room and Nursery

Windows flung wide, day and night, dust settles thick on upstairs floors. How easy to keep them sanitary and clean by stroking a damp mop over, an Armstrong's Linoleum Rug.

"2 minutes mopping and—CLEAN!"

Send for This Free Booklet "RUGS OF PRACTICAL BEAUTY"

Send for this book of colorplates today. It tells you what you can do right now to make your floors attractive at low cost and how you can *keep* them attractive with far less work. Send for it today. It's *free*.



Armstrong's Beauty

Linoleum Rugs

Pattern 875

Pattern 875

Pattern 910

Pattern 910

They Have Stopped Mistakes in Painting — with the help of the Farm Painting Guide



You can do the same.

Save the Form Painting Guide, put it up on your wall in a permanent place, and then, every time you go to buy point, varnish, stain or enamel, look at the "Guide" first.

The Guide simply makes it easy to select the RIGHT type of paint, of varnish, of stain and of enamel exactly as a color eard makes it easy to select the right color; it stops mistakes in painting.

Be sure to look up "Paint Headquarters"

The store in your community displaying the "Guide" and carrying the correct Sherwin-Williams finishes is "Paint Headquarters" Look for the "Guide" in the window and inside the store.

The Sherwin Williams Dep't of Home Decoration will gladly give you individual suggestions for your home if you write them. Ask for free booklet B450 and for free set of hundsome color plates. If you want the most complete book on home decorating ever issued. 177 pages, in my beautiful full page decorative schemes in colors, send 50c (65c in Canada). Write The Sherwin-Williams Co., Dep't B435, 610 Canal Road, Cleveland, Ohio.

SHERWIN - WILLIAMS FARM PAINTING GUIDE



SURFACE	TO PAINT— USE PRODUCT NAMED BELOW	TO VARNISH— USE PRODUCT NAMED BELOW	TO STAIN— USE PRODUCT SAMED BELOW	- TOENAMEL- USE PRODUCT NAMED BILLOW
AUTOMOBILES	S.W. Auto Enamel	S-W Auto Et am l		
AUTOMOBILE TOPS AND SEATS	N. S. W. Alator Trep and S. W. Alator Scat. Dre. 1982			
BARNS, SILOS, OUT- BUILDINGS, Etc.	S-W Commonworld Parts S-W Roof and Britis Parts		- W-1,2	
BRICK	SWP Horas Paret SW Construction Wall Proper			0.1102-1-0.
CHIINGS, Istoriar	Flat Torr	San San Lan		
CONCRETE	WITH a Park			
DOORS, Tele-		Version In the State of the Sta		
	SW1 11 Part			
118018	SWP House Park Metalicity SWR of the Albertage Parks			
LLOORS, Levelor	S W. De ade Flore Patrice		i -	
	$= W \cdot (x_1, x_2, x_3, x_4, x_5, x_4, x_5, x_5, x_5, x_5, x_5, x_5, x_5, x_5$			
TURNITURE 1 :	- William and Donath Con-			
P				
HOUSE OR GARAGE				
IMPLIMINTS. TOOLS TRACTORS. WAGONS TRUCKS				
TINOTICA				
R-XL(LX L) M(s)				
ROOTS				
NI RIIINA				
11 711 - 71				
WOODWORK				
,				

SHERWIN-WILLIAMS
PAINTS AND VARNISHES



OPEX

SHERWIN-WILLIAMS
PAINTS AND VARNISHES

Specify Opey for repainting your auto. Opey to the most ein interesting to be query with the entiry time to the thing of the entiry time of claps in Astrody improve with appropriately consistent the shop in a low day. With tange of colors Be since to ask your auto point shop in Showing of Colors and Directory of the entire of the entire



For Cleaner floors with Less work

Armstrong's Linoleum Rugs

Wear longer-genuine cork linoleum clear through to the burlap back

The cost is so little



-am I needlessly missing the leisure, the laughter, the friendships I STILL have a right to? Surely there MUST be some easier-to-clean floor covering."

Armstrong's Linoleum Rugs are easier-to-clean. "2 minutes mopping and—CLEAN!" And they stay clean longer because an Armstrong Rug is always solid, genuine cork linoleum, clear through to the burlap back.

You just can't dislodge ground-in soil from a floor surface that splinters and chips off into pits and jagged hollows, without going back—hands and knees—to the old-fashioned, back-breaking scrubbing brush. So let's forget that, once and for all, and get an ARMSTRONG RUG.

ARMSTRONG CORK COMPANY

Linoleum Division

1002 Jackson St., LANCASTER, PA.



Sitting-room and Dining-room

All tords is all to the during room and many the souffling. Soil stained boins abmethe way. Three times a day a right at teet, big and fittle to a know a trelessly over continued. When one sensible, another, and its hard to be a land on the free of the following than in Arm those workship to the following transfer.



Bed-room and Nursery

While we that a write the man is the man in the control of the man in the control of the man in the control of the control of

Similar This free Bunklet

And the Animal A



Armstrong's Linoleum Rugs

Three appetizing CELL-O desserts

YEARS ago it was necessary for the housewife to spend much time and trouble in the preparation of desserts. Pies, puddings and other sweets required many ingredients in the making, as well as long hours spent in the hot kitchen. Then, there was always the uncertainty that the dessert would not be successful.

To-day, this has all been changed. In Jell-O, we have a dessert which is simple and easy to prepare, yet may be served in so many ways that there is always variety. It removes the uncertainty from



dessert making and provides a delicious, healthful sweet at a small cost.

Serve Jell-O often;—give it a prominent place on your household menu. The family will enjoy it and the children usually ask for a second helping.

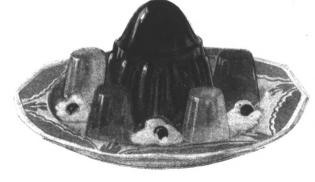
Three favorite Jell-O recipes are given below — many other delightful suggestions for desserts and salads may be found in the little folder in each Jell-O package or write us for our new Jell-O book. It's Free.



ORANGE JELL-O

Dissolve a package of Orange Jell-O in a pint of boiling water and pour into mold. Serve plain or with custard sauce or whipped cream. In the illustration below the molded dessert is garnished with sliced pears and cherries.





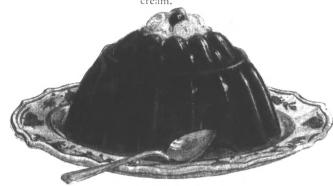
CHERRY-LEMON JELL-O

Dissolve a package of Cherry Jell-O in a pint of boiling water and pour into mold. Dissolve a package of Lemon Jell-O in a pint of boiling water and when cool pour into glasses or plain individual molds. Turn the Cherry Jell-O out on a large plate and arrange the individual Lemon molds and dabs of whipped cream topped with a cherry around it, as in illustration above.



STRAWBERRY JELL-O

Dissolve a package of Strawberry Jell-O in a pint of boiling water. Pour into a bowl or mold and set in a cold place to harden. When set, turn out on a plate and serve plain or with whipped cream.







LE ROY~NEWYORK



SO BIG.

(Continued from page 432). nessed the horses, threaded her way out of the swarming street, and made for South Water Street farther east. Here were the commission houses. The district was jammed with laden carts and wagons exactly as the Haymarket had been, but trading was done on a different scale. She knew that Pervus had sometimes left his entire load with an established dealer here, to be sold on commission. She remembered the name-Talcott-though she did not know the exact location.

"Where we going now, Mom?" boy had been almost incredibly patient and good. He had accepted his bewildering new surroundings with the adaptability of childhood. He had revelled richly in Chris Spanknoebel's generous breakfast. He had thought the four dusty artificial palms that graced Chris's back room luxuriantly tropical. He had been fascinated by the kitchen with its long glowing range, its great tables for slicing, paring, cutting. He liked the ruddy cheer of it, the bustle, the mouth-watering smells. At the wagon he had stood sturdily next his mother, had busied himself vastly assisting her in her few pitiful sales, had plucked wilted leaves. brought forward the freshest and crispest vegetables. But now she saw that he was drooping a little as were her wares, with the heat and the absence from accustomed soil. "Where we going now, Mom?"

"To another street, Sobig-"

"Dirk!"

"-Dirk, where there's a man who'll buy all our stuff at once-maybe. Won't that be fine! Then we'll go home. You help mother find his name Talcott-T-a-1-c-oover the store. double t."

South Water Street was changing with the city's growth. Yankee names they used to me-Flint-Keen-Rusk-Lane. Now you saw Cuneo-Meleges -Garibaldi-Campagna. There it was: William Talcott. Fruits and Vegeta-

William Talcott, standing in the cool doorway of his great deep shed-like store, was the antithesis of the feverish crowded street which he so calmly surveyed. He had dealt for forty years in provender. His was the unruffled demeanor of a man who knows the world must have what he has to sell. Every week-day morning at six his dim shaded cavern of a store was packed with sacks, crates, boxes, barrels from which peeped ruffles and sprigs of green; flashes of scarlet, plum-color, orange. He bought the best only; sold at high prices. He had known Pervus, and Pervus's father before him, and had adjudged them honest, admirable men. But of their garden truck he had small opinion. The Great Lakes boats brought him choice Michigan peaches and grapes; refrigerator cars brought him the products of a California's soil in a day when out-of-season food was a rare luxury. He wore neat pepper-and-salt pants and vest; shirt sleeves of startling white in that blueshirted overalled world; a massive gold watch chain spanning his middle; square-toed boots; a straw fedora set well back; a pretty good cigar, unlighted, in his mouth. Shrewd blue eyes he had, sparse hair much the color of his suit. Like a lean laconic god he stood in his doorway niche while toilers offered for his inspection the fruits of the earth.

"Nope. Can't use that lot, Jake. unty. H'm. Wa-a-al, guess you'd better take them farther up the street, Tunis. Edges look kind of brown.

Stewards from the best Chicago hotels of that day-the Sherman House, the Auditorium, the Palmer House, the Wellington, the Stratford-came to Will Talcott for their daily supplies. The grocers who catered to the wellto-do north-side families and those in the neighborhood of fashionable Prairie Avenue on the south bought of him. (Continued next week).

Fundamental Transportation

Into the vast and complicated network of Transportation in Michigan have been knit several accessory types of carriers. Yet it is noteworthy that each of these accessory carriers exists only through service by certain of Michigan's 24 Steam Railroads.

Electric railroads get their power from coal. Steam Railroads bring it to them.

Motor cars, trucks and busses use gasoline for fuel. Steam Railroads bring it from far-away refineries—bring, too, the materials for the paved highways on which motor vehicles run.

Not even ships are self-sustaining. Their coal meets them at the railhead.

Steam Railroads are Fundamental Transportation.

On their faithful performance everything else depends.

This responsibility is ever before the Steam Railroad men of Michigan. And they feel they are meeting it today better than ever before.

Does your experience confirm this belief?

Do you appreciate the absolute need of protecting this Fundamental Transportation from further restrictions adding to the cost of service?

Write this association frankly and fully.

Michigan Railroad Association

506 Railway Exchange Bldg., Detroit, Michigan

(14-27)





Cultural directions included. By parcel post prepaid, anywhere Attractive Proposition for Large Commercial Growers.

Write for Booklet NOW—free

Riverview Farms, Box 252 Bridgeton, N. J.



Write for our

New Albany Box & Basket Co., Box | New Albany, Ind.

FURS Lake Land Fur Exchange, Salem Mich. We have special outlets for Muskrats. Write for price list, Will call for lots of over \$5500.

STRAWBERRY PLANTS Raspberry, Blackberry, Grape, etc. Ornamentals, Roses, Gladiolus, Seeds. Guaranteed. Price low. Catalog free. J. N. ROKELY & SON, Rt. 6, Bridgman, Michigan,

Get Low Prices 1000 Grapp plants, \$17; Strawberry plants, \$3; Rasp berry plants; bulbs. State inspected. Guaranteed Booklet free. Westhauser's Nurseries, box 304, Sawyer, Mich

The Eclipse Spray Pump is simple in construction, durable and efficient. Made in several sizes to meet the various needs. SPRAY THE MORRILL & MORLEY WAY

ASK FOR CATALOG MORRILL & MORLEY MFG. CO. Box I Benton Harbor, Mich.

SAWMILLS-POWER



Farquhar Sawmills cut accurate lumber, have large capacity and are easily operated. Built in sizes to suit the power.

Faquhar Locomotive, Deep Fire Box and "Slab Burner" Rigs delivor strong, steady power. De-pendable and economical. All easy steamers.

Grain Threshers, Hay Balers, Dairy Boilers, Hydraulic Cider Presses and Farm Implements.

A. B. Farquhar Co., Limited BOX 512 , YORK, PA., U. S. A.



STOP! LISTEN! LOOK!

THE Union Pacific System offers the services of its Agricultural Department to assist you in finding

A SUITABLE FARM HOME

in any of the States served by its lines, namely: Kansas, Nebraska, Colorado, Wyoming, Montana, Utah, Nevada, California, Oregon, Washington and Idaho.

GOOD PRODUCTIVE LAND can be purchased at a reasonable price, and opportunities await those who will go after them.

WRITE TO ME TODAY and let me know which States you are interested in, and I will send to you information and literature absolutely FREE. Also inquire about our Low Round Trip Homeseekers' Fares

R. A. SMITH. Supervisor of Agriculture, Union Pacific System, Room 225 Union Pacific Building, OMAHA, NEBRASKA.



Galvannealed

Only in 'Galvannealed' 'Square Deal Fence can you get all of these big features. Buy the best—it costs you no more.

- (1) Copper-bearing steel resists rust many years longer than steel without copper init. Square Deal Knot is guaranteed not to slip. Small and compounts copper.

 (2) Colv. Square Deal fence goes into big knots.
- points copper.
 Only Square Deal is made by the "Galvan-nealed" process. Welds 2 to 3 times more zinc into the wire. Lasts 2 to 3 times longer than galvanized wire.
- No Extra Price. Costs the same as ordinary kinds, but outlasts any other farm fence.
- (4) Full gauge wires. Cut prices sometimes mean undergauge wires. Use your wire gauge.
- (6) Stiff, picket-like stay wires require fewer posts and hold "Square Deal" tight and trim—no sagging.
- (7) Well crimped line wires, tied with the knot that cannot slip, give Square Deal live tension, secure against strains or suddenweatherchanges.

(8) Every rod is marked with the Red Strand. Always look for it.

KEYSTONE STEEL & WIRE CO. 4946 Industrial St., Peoria, Ill.

Frank S. Edwards, R 1, Camden, Mich., says:

20c a Rod."

GET

FREE

BOOK

ITSELMAN FENCE

"Saved 15c to

Cutyour own fence costs. Buy direct from us at Lowest Factory Prices. We Pay the Freight. Write for Free Catalog of Farm, Poultry, Lawn Fence, Barbed Wire, Gates, Posts. KITSELMAN BROS., Dept. 278 MUNCE, IND. America's Oldest Fence Manufacturers

Freight

Prepaid

Prices slashed—and freight now prepaid anywhere I Famous Peerless quality. Get the new Peerless Barrain Book before you spend a cent for Fence, Barb Wire, Steel Posts, Gates, Roofing or Painta, Weit for our prices, Write for 104-page FREE CATALOG, PEERLESS WIRE & FENCE CO.

Dept 7801

Official Proofs

from Indiana State University, R. W. Hunt Company, Chicago; C. F. Burgess Laboratories, Madison, Wisc. They tell why Square Deal must outlast any other farm fence. We'll also send catalog-and -Ropp's Calculator which instantly figures crop values, interest. costs and 75,000 other problems. All 3 free to landowners

Galvanized

at America's Lowest Prices

Here's your chance to buy strong, heavily galvanized hog, poultry and field fencing at a big saving. A timely purchase from one of America's leading fencing factories brought us a large quantity at big price reductions from the regular markets. All kinds in all heights to choose from.

Buy Liberally NOW! No. HC-104. This bargain will give you some idea of the wonderful values now ready for quick delivery in our big complete stock. Hog fencing, 26 ins. high made with 10 guage top and bottom wires—12½ line and vertical stay wires, space 12 ins. apart. 7 bars or 26 ins. high. Special sale price, per rod. 23¢

Ask for complete illustrated bargain fencing list No. HC-42

Steel Fence Posts

No. HC-108. Special 2 in. steel fence posts sizes from 4 ft. to 8 ft. long, with patented adjustable clamp. Our price of posts four ft. long, each 20¢

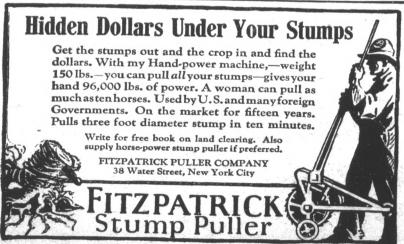
Mixed Wire Nails No. HC-112. New Wire nails in mixed sizes from 3 penny to 40 penny. Special \$1.95 price of 100 pound keg.....

Dept. HC- 42 HARRIS BROTHERS Co. 35th and Iron Sts., CHICAGO, ILL.

Hog, Poultry & Field Fence

BARGAIN BOOK By all means send for my NewCut Price Catalog and see the money! save you on Fence, Gates, Steel Posts, Barb Wire, Roofing and Paints. I PAYTHE FREIGHT





A Mosaic

Our Weekly Sermon-By N. A. McCune

NOW what a mosaic is? It hasn't our government is trying in internaanything to do with Moses. The dictionary says, "Mosaic-a surdecoration made by inlaying in patterns small pieces of variously colored glass, stone, or other material. Something resembling mosaic, as a literary composition." This is review week, being the end of the quarter. I have several things in mind, and it is most like a mosaic of anything I can think of. The various parts are assembled, but they have no special relation to each other.

Did you read the report of the missionary congress in Washington? It is worth thinking on. Five or six thousand thoughtful Christians met in Washington last month to think about world problems. The one fact they

all agreed on was, that America must first be christianized. A pagan America, or a fifty per cent pagan America is the biggest obstacle in the path of world - wide progress in knowl-

edge of Christ. The peoples where the missionary is working no longer believe that all America is like the missionary. They get it from many sources that the U.S. A. has its full share of greed, injustice, crime, race hate, unequal opportunity, and all that. Lynchings are promptly and fully cabled to the old world, and appear in detailed description in the press. So that those who have been saying that America needs a lot more religion ought to be satisfied. America needs christianizing and needs christianizing

FURTHER, the missionary congress said that international contacts should be christianized. We ought to get along with other nations at least as well as we get on in our own neighborhoods. And still further, these big-visioned men and women said, the churches must cooperate in missionary work. When Tokyo was rebuilt the work of missions was not unified. Each rebuilt for itself, instead of pooling their interests.

To pass to another subject, it has been forcibly brought out of late that poor folk need personal attention more than they do money. That is, large numbers do. The annual report of the New York Association for Improving the Condition of the Poor has just been published. Six thousand and more families were visited by members of this association during the year. "It cannot be emphasized too strongly," says the report, "that the greatest need of many families is personal service. This service is less understood and often more difficult to provide than material relief. Without it material relief is a very incomplete remedy in most family situations and many difficult family troubles, anxieties and distress require nothing but skilled personal service." Of Christ it was said, "Himself took our infirmities and bare our sicknesses." The need of personal attention to people could not be better illustrated than in the report of this society. It was said a year ago that we are tending to have too many specialists in medicine and too few first class family physicians. When the time comes that the family physician and the minister of religion go, some other sort of profession will come in to take their place. People need counsel, encouragement, hope. They frequently require surgeons to operate on the backbone, replacing gristle with lime.

To slip another piece of colored glass or bit of stone into our mosaic, note another experiment which

tional goodwill. You will recollect that the United States government did not demand all the indemnity money from China which was coming to her from the Boxer Rebellion. About one-half was used as a trust fund for educating bright Chinese students in American universities. These government students are to be found scattered in many institutions of learning. The first experiment is working so well that the department of state is going to try another. Last autumn a mob gathered in Teheran, the capital of Persia, and murdered the United States minister. Our government demanded a payment of \$60,000, I believe it was, from the Persian government, plus the cost of sending a gun boat to bring home the body of the deceased official The cost of the government ship's trip was \$110,000, which the Persians paid. This \$110,000 is now to be used as a trust fund for the education of Persian students in universities in the United States, if the proposal of our government is accepted. Thus it is hoped to establish friendly relations between the two countries.

All interest does not center in the cities, as it sometimes seems that does. The Institute of Social and Religious Research is now prosecuting a study of villages in the United States. Some of these studies are now completed. Those in the east are shown to have grown only one-third as fast as the country as a whole. The great majority of village population is American born, is white, and was born in the state in which it now resides. The proportion of women to men is much greater in these villages (thirty-four in this study), than in the cities.

THE school attendance is much better in the village than in the city, especially among older girls. Illiteracy is only about one-third as great as in the cities, owing to the smaller per cent of immigrants. It is an interesting fact that village life is being given more attention of late years. Main Street has some virtue yet. The old saw about God making the country, man the city and the devil the little country town, may have to be revised. It would add to the happiness of many thousands if village life could be made more acceptable. The long trek toward the cities would slow up, and life would become more normal and rewarding for multitudes of people. The public schools are fast becoming better in villages, but the church and wholesome recreation methods do not move so rapidly.

Something new in the way of benevolence was proposed a short time ago by Mr. Nash, of Cincinnati-"Golden Rule Nash." Mr. Nash belongs to the Universalist church, which is setting out to raise a million dollars for promotional purposes. He asked his Universalist co-religionists whether they had enough of the Christlike spirit to raise as much for religious causes outside of the denomination as for denominational ends, and offered to give onetenth of this second million. He proposed to give a part of this extra million to the Federal Council of Churches, which does not recognize the Universalist denomination. Without any particular attempt at promotion, this fund has already reached \$40,000. A Baptist has agreed to double Mr. Nash's gifts. A Jew and a Roman Catholic each gave \$5,000. This kind of thing seems to be catching.

SUNDAY SCHOOL LESSON FOR MARCH 29.

REVIEW: -Closing Period of Christ's Ministry. GOLDEN TEXT:—Jesus Christ is the same yesterday and today, yea and forever. Heb. 13:18.

SPRING FASHIONS.

times as often does it come from multiple lacerated wounds. sweating through a warm day in winter clothing. If you fear to discard winter underwear you can at least regulate the weight of the outer garments.

and must be thinned out, neither do I think that it is laden with impurities pancreas to supply the sugar and that a spring medicine will drive for me to cultivate a taste for even so mild a laxative as sassafras. But may be that some cases are due to if you feel that a spring tonic is imperative I can recommend nothing better or safer than the old-time remedies I have mentioned, and whatever out to suit his own case. It is not their other qualities, they are at least

Regardless of tonics, spring does call for a few changes in your mode dition and controlling the weakness of living. Don't continue to stoke up and loss of flesh. your body furnace with the heat- producing foods you have used all winter. Leave off hot cakes and syrup, eat less fats and sweets. Take more vegetables, canned and fresh fruits, milk and eggs. Rhubarb is a mighty good spring food, and so is spinach as soon as it comes. The human body is more than two-thirds water. Be sure to replenish the supply by drinking not less than half a gallon a day.

BABY CRIES FOR WATER.

My baby cries a good deal and I have been in the habit of giving him a bottle of hot water to keep him quiet. He has got so that he seems to have the bottle in his mouth most of the time now. Please tell me if there is any harm in it?—G. H. H.

There is no harm in giving the baby hot or cool water at regular intervals; in fact, it is a very good practice that is too much neglected. Neither is there harm in giving the hot water occasionally when there seems to be an accumulation of intestinal gas. But it should be only on special occasions. Instead of quieting the baby by giving the bottle whenever he cries you should find out why he cries and seek to correct the error in his feeding or whatever it may be that causes his distress. The habit that he now has is distinctly harmful for many reasons and you must proceed at once to break him of it.

GOING BACK TO WORK AFTER ERYSIPELAS.

How soon is it safe to resume work after a severe attack of erysipelas of head and face, leaving one extremely weak?-D.

This cannot meagured in or weeks. It depends wholly upon the restoration of strength and vigor. This is a wasting disease and no attempt should be made to resume work until the poison is eliminated and strength is restored.

SERUM FOR TETANUS INFECTION.

A neighbor has just died of tetanus caused by getting cut up in some rusty barbed wire. The doctor says that his life would have been saved if he had been given a shot of serum when the accident occurred. But how are we farmers to tell? We are always getting cuts and scratches. How do we know when to have the serum injected?—J. K.

This is a question that has puzzled

me ever since anti-tetanic serum was first introduced. The germs of tetanus ERE is a spring fashion note. may be anywhere about old stables Don't wear winter clothing into and such places, and it is obvious that the mild weather of spring. It a man cannot have a treatment for is absurd to drag around with the every injury. I would insist on the same weight of clothing you have treatment, however, when the scratch worn all winter and then complain of or cut is of a penetrating character, "that tired feeling." Rash changes of when a very deep cut gives little bleedunderwear may bring disaster, but ten ing, or in any injury in which there are

DIABETES.

ulate the weight of the outer garments.

I do not take spring tonics. I do not even indulge in sarsaparilla or sassafras tea. You see, I do not believe that the blood thickens up in winter grow this disease?—Reader.

Diabetes is due to the failure of the starch digesting ferments. Usually it Therefore it would be absurd comes on gradually and quite frequently is discovered by accident. It taking too much sugar; but that is not true of all cases. Every person with diabetes ought to have a diet worked possible to lay down a general law to fit every one. Insulin is a great aid in bringing the patient into better con-

SUNSHINE HOLLOW ITEMS.

Walter Jones says it isn't always how early you get up but what you do afterwards that counts a lot on a

According to Uncle Oziah Filkins, the noisy, squawky windmill don't always pump the most water.

Millard McCann says the best farmers in his section always have the best luck.

"NOT A KICK IN A MILLION FEET"

Do you know

how much your new roof should cost

how long each type of roofing should wear

how to measure a roof?

how to apply asphalt shingles and roll roofing?

how to judge good roofing

The above questions and hundreds of others are answered in the authoritative information book illustrated to the left. Secure this book from the Mule-Hide lumber dealer in your town or mail coupon below

MULE-HIDE Asphalt Shingles and Roll Roofing



THE LEHON COMPANY Manufacturers 44thSt. and OakleyAve.

INFORMATION REQUEST MF-1

THE LEHON COMPANY

44th Street and Oakley Avenue, Chicago, Ill.

Send me your free 16-page roofing information book.

Address

Riverside Oversize Tires and Tubes

Read what the users say

Does a Riverside Cord last as long as any tire? Is it as good a tire as any tire made? Is it as well made as a tire can be made? Tens of thousands of users of Riverside tires answer enthusiastically—"Yes!"

Just forget that our prices are low. Compare quality,

service, mileage—tire for tire, and Riverside Cords stand equal to the best. There is a big saving in price—and the quality, mileage, service is all that you get in any tire.

How our low prices are made

Riverside tires cost as much as other tires to make. You pay as much for fabric, rubber and labor. But you pay less profit. That is why Riverside prices are so much less. We are the largest retailers of tires in the world. We sell 5,000 to 6,000 tires per day. Riverside Tires are made in the best factories—on our specifications, under our supervision. We know their quality.

Greater Protection against Skidding

Big heavy blocks of live rubber and extra thick side studs and the husky ribs of Riverside Cords grab the slippery roads and are your greatest protection against skidding.

Riverside Cords are thus the safest tire, the most satisfactory tire and the most economical tire you can possibly buy. Why pay more?
For 53-years Ward's have sold "Quality" goods

only-with a definite "Money Back" The reliability of Montgomery Ward & Co. is beyond question. You can not buy a tire with a better guarantee.

"A pair of Riverside Cords have already given me one year's service on rough mountain roads, and they have never been off my car. You can't beat Riversides for good road service."

James A. Kipe,
Cascade, Maryland

"The Riverside Cords I bought last Summer show very little wear. High-priced tires put on my car at the same time are all gone. I tell my friends to use Riversides and get their money's worth."

Chas. F. Poor,
Danvers, Mass.

"A Riverside Cord on my Buick, with your heavy duty tube, has run 15 months, in use every day, and it still has in it the same air put in 15 months ago. 'That's going some'.' D. S. Robbins,
Las Cruces, N. Mex.

ESTABLISHED 1872

The Oldest Mail Order House is Today the Most Progressive

Chicago

Kansas City

St. Paul

Portland, Ore.

Oakland, Calif.

Fort Worth



Woman's Interests



How One Woman Contents Herself

When Children Left Home Mother Nature Helps Her to Overcome Lonesomeness

"To me it has meant more than added health. It has been something to fill the break as the home brood have bladdernut whose small balloons will early August for fall use. Study the kitchen range each day, it is an easy fill the break as the home brood have scattered, first away to school and this year they are all away teaching. As we get older we need something in particular to save us from ourselves," says the author, who is a farmer's wife over in Jackson county. She tells of the means whereby she has worked out her salvation of contentment on the farm after the children had left home.—Ed.

OU often hear people say that they love the country, but not the drudgery of the farm. It is true that there are long busy days on the farm, but why not become ardent Nature lovers and let her make us large returns in health, pleasure and possibly profit.

Begin now by bringing in twigs of flowering shrubs and trees, cut from the latter part of February up into April. The earlier bloomers to be brought in first and the late bloomers last. Place in water in a sunny window, changing the water occasionally and adding a little chrcoal to help keep it sweet. Forsithias, pussy willows and poplars respond quickly. I have had forsythea blossoms come out in ten days, cut the fore part of March.

Others which do well are spireas, flowering almonds, flowering currant,



Caring for Flowers Develops Health and Beauty.

cherries and plums, but few are disappointing. Select twigs with plump buds as they contain the flower buds, and the slender ones leaves only. A study of the bursting buds indoors will make you more observing of outdoor shrubs and trees.

Of the books which I have had from the libraries I would like to tell you of a few which I have found most helpful. "Trees Every Child Should Know," by Julia Rogers, is very clear and concise. "Our Nature Trees and How to Identify Them," and "Our Northern Shrubs and How to Identify Them," by Harriet Keeler, also "Field Book of American Trees and Shrubs," by Schuyler Matthews, are more complete and higher priced. There are also flower books by the above authors but I have found "The Flower Findby George Walton, the best of all for just a flower lover. The flowers and fruit are classified according to color so that it is much easier to identify them. Learn the joy of becoming familiar with our native flowers, from the early buttercup to the beautiful fringed gentian, which loves to have its feet in the water, its head in the

Spring is the best time to begin a wild flower garden, as most plants can be moved while in bloom, if carefully done, when you can be sure just what you are getting.

Among our native vines, none are better for the porch, than the bittersweet, but it is seldom used. From room decorated with magazine picfence row and roadside I have moved to the home grounds; the chokeberry, with its dainty white blossoms and awry.

keep through the winter if gathered in July; the viburnums and the shad bush or June berry which is one of our earliest bloomers.

Farmers' Bulletin No. 1087, "Beautifying the Farmstead," will help in the arrangement of plantings.

For the busy housewife the garden is the easiest place to grow flowers, where the horse and cultivator does part of the work. Everyone has their favorites, but in annuals choose those with a long season of bloom. The California poppy, early cosmos, phlox, sweet sultan, calliopsis, and mourning bride are all early and continuous bloomers, also fine for cutting and, of course, the aster is indispensable for fall flowers. Plan to add some hardy bloomers every year, as the iris, peonies, phlox and hardy mums, and there are many hardy perennials which may be easily grown from seed and will last for years if given a well drained location. Some of my favorites are sweet rocket, shasta daisy, pyrethrum, larkspur, coreopsis, sweet Williams, gaillardia and Canterbury bells. The coreopsis and gaillardias are fine for cutting and will bloom for a long time if kept from seeding. If you are not familiar with the modern Canterbury bells you will be delighted with the long spikes of large flowers.

The seed catalogs tell you to sow perennials in August, but it is often too dry for them to start, and those that do are too small to survive the winter. I have had much better success with spring-sown seed.

Last, but not least, the vegetable garden. I have never had a hot-bed but have a seed-bed in a protected corner south of the house, and plants from it are very hardy if not extremely early. Let your garden furnish variety for your table, and health for your family, as well as a saving in grocery bills. Plant hardy things early and in succession. If you have never

early August for fall use. Study the kitchen range each day, it is an easy seed books and try something new, with the new and the old in sufficient quantities for canning, making the garden a joy the whole year.—Mrs. H.

TO TEMPT SPRING APPETITES.

Rice Fluff.

1 cup rice (cooked in 1 cup whipped cream plenty of hot water) Maple syrup Cook the rice in plenty of hot water and when thoroughly done drain and rinse with cold water two or three times to separate the grains well. Add the whipped cream and then pour over this maple syrup.

Marshmallow Salad.

1 lbs. marshmallows, 2 tart apples, cut into small pieces Few nut meats ½ 1b. dates, pitted and cut up Blend with the following dressing:

2 eggs beaten 1 cup sugar Butter size of egg 1 tsp. salt 1 tsp. mustard 2 tb. flour ½ cup cold water 1 cup vinegar

Cream all together before adding vinegar and cook until thickened. I use about two-thirds cup of dressing to half cup of whipped cream.

Salmon or Tunny Salad. 1 can salmon or tuna 1 cup slicea celery

Drain oil from fish, remove bones and bits of skin. Add celery and mayonnaise or salad dressing. Arrange on lettuce leaves and garnish as desired.-E. L. H.

USES FOR OLD STOCKINGS.

NEVER throw away an old stocking. Stitch together by machine four or five thicknesses and you have excellent "holders" for hot pans, etc. Put a few drops of kerosene on one and shut it in a tin can over night and you have a dustless duster. Slip the legs over glass fruit jars to protect them from the light. Lightweight underdrawers for children can be made from long stockings, with the addition

way to keep it bright.

HOMESPUN HINTS.

I have discovered that rubber bands are very useful in the work basket to snap around balls of crochet cotton to keep it from unwinding, also use a rubber band around a cook book to mark your page. I always save all rubber bands and find a purpose for

When making button holes in thin or sheer materials, try rubbing a little library paste, or laundry soap on the wrong side of the goods and allow it to dry before cutting the button holes. This gives a firm surface on which to sew, and it will not discolor the most delicate fabric.

Add a little table salt to gasoline when cleaning spots from clothing and you will find there will not be a circle after the goods dries. Brush the salt from the garment before pressing.

When thickening gravy, add a tiny little salt to the flour and the gravy will not be lumpy.—Mrs. A. K.

MAKE SPRING DRESSES AT HOME.

HE advent of spring brings with it a demand for new dresses. Many of these can be made at home. Our Bulletin, "Dressmaking in the Home" will help you solve many of your sewing problems. It contains ten fully illustrated lessons on how to make the various stitches and seams, how to cut and make linings and fitted waists, rules for taking individual measurements and making alterations of patterns, special lessons on making skirts, waists, sleeves, cuffs, girdles, and fitting the necklines, construction of coats and jackets, how to make underwear, all about the layette, how to make boys' clothes, and the various

A Fool's Day Frolic

OMER has said, "Even the fool us plan a Fool's Day Frolic for our spring entertaining.

The invitations should announce the character of the frolic. Write them on torn cracker-box wrappings and send them in the largest paper sack you can buy. Each guest is requested to dress to carry out the "foolish idea," either their clothes are worn topsy turvy or they may come attired never realized how many different va- candy, but some of the rieties of fools the world contains but this party will show you.

One can dress in red with jingling bells, another in white muslin and side in black letters to represent a blockhead.

Others can wear a dunce cap and appropriate costume. A little fat person with a high hat can represent

It is unique to have the walls of one tures pinned to the wall bottom side up, and the furniture placed very much

When the guests are assembled in is wise after the event," so let the living-room the host calls attention to numerous pans of pop corn placed in convenient places and invites all to help themselves. Some are surprised when they plunge their hands into the pans to find only a layer of pop corn on top and underneath cold water. These jokes can then be removed and replaced with huge pans of the genuine article.

Between games the hostess might as some sort of fool. Perhaps you pass a plate of delicious home-made their chocolates to be small onion sets dipped in bitter chocolate.

The "April Fool" idea is carried out in the refreshments by serving them wired hat, with A B C market on each all in a ridiculous way, sandwiches may be passed in a bushel basket lined with straw. Pickles are served in a new wash basin, coffee poured from the teakettle, and doughnuts strung on fishing poles. Finally each guest may be handed a little box and a small package from a large market basket. telling the guests that they are April fool souvenirs, but after enjoying many fool surprises they open them to discover ice cream and cake.-M. C. Detroit, Mich.



ways to mend and darn the jagged tears in different kinds of material.

There is also available to our readers a bulletin, "Art of embroidery." This little book contains ten fully illustrated lessons showing how to make the various embroidery stitches and the kind and color of material to use. The price of each bulletin is 25 cents. Address your requests to the Handwork Dept., Michigan Farmer,

81 OFFICIAL PROFIT Per Hen in One Year Write for my free book today. Tells how I made \$7.81 official profit per hen. Tells too, can make big money with

Dr. Heasley's Egg-Bred White Leghorn CHICKS

From Greatest Bred-to-Lay Strains
Tancred-Hollywood-English-Ferris (Dr. Heasley Bred) Strains, Also Dr. Heasley's Famous "Egg Bastet" Strain Buff Leghorns.

When you buy chieks this year—buy the best. Dr. Heasley's chicks come from the blood of National Show and Egg Contest winners. Real business birds. Heavy layers of large white eggs. Make big profits every day on the farm. That's what you want—we supply them. At Int'l Egg Contest 1923-24 the Heasley's Dride of 235 eggs each. One customer reports average of 205 eggs from 125 farm flock pullets.

Blood Will Tell

Blood Will Tell
Chicks and eggs from
this kind of stock is bound
to make you money. 10%
discount on orders booked
now. Free service to customers, Write today. DR. L. E. HEASLEY FARMS, Grand Rapids, Mich.

the

asy

ds

to to

to all or

in

tle

he it

28 to

st

nd

le

lt

ıy

y



Barred Rock Baby Chicks

We hatch only Barred Rock Chicks from choice selected stock shipped by pre-paid parcel post to your door, satisfac-tion and a live delivery guaranteed. CIRCULAR ON REQUEST

THE KAZOO HATCHERY CO. Kalamazoo, Mich



W. LEGHORN,-BLACK MINORCA-ANCONA
Official International Egg Contest
Records up to 254 Eggs.

Records up to 254 Eggs.

Few can equal our PRICES.
No one can beat our QUALITY.
Before ordering your 1925 chicks send for our CATALOG. Our LOW PRICES will astonish you.
Over 20 years experience assures your satisfaction.

Satisfaction.

PREPAID.

Established Sent by PARCEL POST PREPAID. in 1904 100% Live Delivery Guaranteed. PINE BAY POULTRY FARM, Holland, Michigan.



LAYERS! That's what you want, Standard Chicks are from just that kind of flocks. Our strain of Supreme Laying white Legherns is the result of our many years experience, breeding and selection. They are large sixed, long deep wedge shaped bodies, keen alert eyes, large lopped combs. The kind you will be proud of and eventually buy. Shipped postpaid. 100g Live delivery guaranteed. Illustrated catalog sent free.

BABY CHICKS and DUCKLINGS

Rhode Island Reds and Barred Rocks. Utility bred.
Also extra selected quality Reds and M. A. C. strain
Barred Rocks. From stock carefully selected for
health and egg production. White Pekin Ducklings.
Write for circular and price list. Goret's Poultry
Farm & Hatchery, Corunna, Mich.

Green Lawn Chic Prices.

White Leghorns, 13c; Barred Rocks, R. I. Reds, 15c; Black Minoreas, White Rocks, White Wyandottes, 16c; Bleavy mixed for broilers, 13c; Light, 11c. Postage pald, 100% live delivery. Our 15th year. We produce only one grade, the BEST, Reference, Fenton State Bank, GREEN LAWN POULTRY FARM, Gus Wecht, Prop., Fenton, Mich.

CHICKS Barred Strain.

and Brown Leghorns. Guarantee full 100%
alive. Free Delivery. HILLVIEW POULTRY & HATCHERY, C. BOVEN, Prop.,
R. 12-B, HOLLAND MICHIGAN.





English Producer White Leghorn
Larger size 5-lb. hens. The kind for
farmers and egg producers. Strong
husky chicks our specialty, \$15 per
100. Eggs \$8.00. Free Catalog.
Mapleside Leghorn Farm, Box O,
Tremont, III.

Barred Rock & Red

Chicks from sturdy, healthy, free range flocks. Carefully mated for high egg production. Blood tested for white diarrhea. Write for prices. Reference, Farmers' & Merchants' Bank. KRUEPER POULTRY FARM & HATCHERY, Milan, Mich.

FIRST AVE. HATCHERY

Chicks from heavy laying strain, S. C. White Leg-horn, mated with Eckard Cockerels from M. A. C. Also chicks from old hens, fine birds, culled stock. If, chicks wanted don't delay. Send for price list. First Ave. Hatchery, Owner, John DePree, Helland, Mich

WHITTAKER'S TRAPNESTED REDS Both Combs, Michigan's Greatest Color and Egg Strain. Chicks and Eggs from Vigorous, Hardy Stock, Our 16th Annual Catalog is yours for the asking. Write for it.
INTERLAKES FARM, Box 39, Lawrence, Mich.

Two Popular Breeds S. C. White Leghorns \$13; mated stock. Healthy chicks. "My chicks will satisfy." JACOB De RYKE, 1007 Pennoyer Ave., Grand Haven, Mich.

Egg Bred Barrred Rocks Chicks and hatching eggs free catalog describes them and is full of money making poultry information. Send for it. Gift Edge Barred Rock Farm, Gobles, Mich.

C H I C K S Barron S. C. W. Leghorns, \$11 per 100 if ordered five weeks in advance. WATERWAY Mich.

Doings In Woodland

BROWNIE HAS A BIRTHDAY.

HERE was hustle and bustle in the house where Rolly Rabbit and Bruin lived. The smoke curled briskly from the chimney. Every now and then Bruin could be seen by the window with a dust cloth in his hand.

Even the odor from the kitchen, as one passed by, told of some anticipated event. First you would smell newmade bread, then sugar cakes, then roasting nuts. A long row of cranberry tarts smiled at you from the kitchen window sill.

One could but wonder the reason for all this bustle and then, "Why, yes," Brownie would be one year old



One Bright Candle Shown in Middle.

tomorrow, and there was to be a birth-

Perhaps you, my little readers, are surprised that Brownie should have a birthday party when he is only one year old. But a little bear, when he is only one year old, is much larger than you are even now. He can frisk about, play games and talk in his animal language as much as you could the first day you went to school.

So it was that the next day brought all the little animal folks to Rolly Rabbit's house for Brownie's birthday party. There was little Jackie Rabbit, Sandy Squirrel, Willie Woodchuck, Charlie Coonie and Bennie Fox.

And what fun they did have. They played games, "Blindman Bluff," and "Hop Scotch." But best of all they liked to play "Falling Leaf." Perhaps some little boys and girls would like to play the same games the animal folks play in Woodland, so I will tell you how they did it.

All the little animal folks were divided equally and formed two parallel lines about two yards apart facing each other. One side was named Red, and one side was named Brown. Each side chose a goal.

Little Charlie Coonie was "it." He blew an oak leaf as high into the air as he could. If it fell with the red side up the Reds must run to their goal, and the Browns try to tag them. If the Browns succeeded in tagging a Red they must then become a Brown. If the leaf fell with the brown side up the Reds did the tagging.

After all the little animal folks had played a long time, they went in to High quality stock. Delivery 100% live and strong guaranteed. Chicks every week. Eight weeks and 3 enjoy the lunch Rolly and Bruin had prepared for them. There were all the good things one had smelled in the kitchen the day before. But best of all, there was a large birthday cake all powdered with sugar and with a sugar and wi all powdered with sugar and with a bright candle shining like a little star right in the middle. Just one candle, because Brownie was only one year

Then Brownie made a wish by that candle. If he could blow the candle out at one puff his wish would come true. At the first blow out went the candle. Brownie didn't tell what his wish was. Perhaps he wished that he would be a bigger bear next year, and could have two candles on his birthday cake.

Paste an envelope to the inner back page of your cook book. It makes a fine receptacle for the recipes you clip from papers and magazines and wish to keep for reference.

Real Investment

If you were to turn all of your investments into cash today, could you realize 100 cents on the dollar?

The probabilities are not in your favor, as the value of your investments, most likely depends on the marketability of your particular investment.

In other words, in case you desired to cash your investment you would have to find a buyer. This is true whether your investment is a bond or a high class stock.

The value of your investment could only be determined at the time of sale and by the price paid you by the buyer-which usually means at a discount or loss.

The availability of the investment is just as important as the safety of the investment.

That is why an investment with this company is so popular.

The investment is always worth 100 cents on the dollar—it is not necessary to find a buyer—you are not at the mercy of a falling market. There is nothing to discount—you can draw your money any time. Every dollar invested, plus earnings of 41/2, 5 and 6 per cent.

Ask for booklet and financial statement.

Resources \$8,200,000

Established 1889

The National Noan & Investment Company

1248 Griswold St., Detroit, Mich.

Detroit's Oldest and Largest Savings and Loan Association Under State Supervision

Knit Ties, 3 for \$1.00, postpaid. Agents Wanted

E. F. REINHARD, 2355 Highland Ave., Detroit, Michigan

PIN A DOLLAR BILL to this adv and receive this folding hardwood Stepladder-Stool by express; handy for window washing; write name and address plain. Harper Mfg. Co., Cassopolis, Mich.

POULTRY



CHICKS—EGGS—PULLETS
Guaranteed to be from CHICKS—EGGS—PULLETS
Guaranteed to be from
high producing stock.
EGGS—\$5 per 15. From
Aristocrat strain exhibition Barred Rooks and
fairyiew Reds.
OHICK S Special Star
Mating, Barron White
Leghorns & Mottled Anconssist per 100. Selected Utility Rocks and S.C.
Reds. \$13 per 100. Selected Grade ABarron White
Leghorns and Motted
Anonas. FAIRVIEW
POULTRY FARM, Box
203, Zeeland, Mich.

Chicks---Pullets

Active Member International Chick Association Member Michigan State Farm Bureau



White Leghorns

Tancred - Hollywood - Barron Sired S. C. White Leghorn chicks. Pure-bred. All free range. Best winter laying strains. Selected 100, \$13; 500, \$62.50; 1,000, \$120. Selected Star-A. 100, \$15; 500, \$72.50; 1,000, \$140. Postpaid. Full live arrival guaranteed. Illustrated catalog free. Highland Poultry Farm, R. 9, Box C, Holland, Mich.

Can ship chicks of high grade quality at once. Barred Rocks, Reds, White Rocks, 15c each. Wyandottes, Buff Orpingtons, Buff Rocks, 16c. White, Brown Leg. herns, 12c. Anconas, 13½c. Mixed heavies, 12c. Mixed light breeds, 9½c. May chicks \$1.00 per 100 less. Order direct from this adv. If less than 100 is wanted add 35c extra. Hatching eggs. Free circular tells about 15. first class varieties, Bank Reference, Lawrence Hatchery, R. 7, Grand Rapids, Michigan,



Ten FREE

with every 100 order. Plymouth Rocks, White Rocks, White Wyandottes, Reds and White English Leghorns. Order now and get the best at DURAND POULTRY FARM & HATCHERY, Fenton, Mich., Box 404.

Big 5-Lb English W. Leghons Larger hens, better havers, Chicks, withing eggs. Free catalog describes them and it full of practical money making poultry information. Send for it. A. W. WAUCHEK, Gobies, Mich.

Michigan Farmer Patterns

No. 4905—Child's Play Suit. Cut in four sizes, 2, 3, 4 and 5 years. A four-year size requires 2½ yards of 27-inch material. Price 12c.





No. 4907—Girls' Dress. Cut in four sizes, 4, 6, 8 and 10 years. A six-year size requires 1½ yards of 32-inch material for the guimpe, and 1¾ yards for the dress. If guimpe is made with short sleeves it will require one yard. Price 12c.



No. 4877—Girls' Coat. Cut in five



S. C. White Leghorns Chicks—Eggs—Stock

From world-famous layers. Tancred strain, 250-280. Barron strain, 230-270. Birds culled by experts from the state university. All our pens are mated with males from dams of high records. 100% live delivery guaranteed. 5% discount on orders placed before April 1. Write for our illustrated catalog showing our poultry show winners. "Regular Egg Machines," said W. W. Zike, judge of Holland show, after looking over our pen. ing over our pen.

Reliable Hatchery and Poultry Farm, Box 3 Holland, Mich.



EGG BRED for 19 YEARS

wood from 260-289 ancestry. Every chick strong and healthy, broods making uniform flocks that average high in egg production. 100% safe arrival guaranteed. In short, we sell you profits—how much do you want? Read our catalog for full information, Holly-Barron Brown Leghorns

Wyngarden HATCHERY & FARMS ZEELAND, MICH., BOX M

From World's Greatest Layers LOW PRICES --- Catalog Free

Eckhard and Tom BarronW. Leghorns—Heavy Type Brown Leg-horns—R. C. and S. C. Rhode Island Reds—Rhode Island Whites—Sheppard's Anconas—Park's Barred Rocks

Anconas

Barred Rocks

If you want pure bred chicks that are bred right, hatched right, and shipped right, that grow and will make you a profit, get our new low prices and free catalog before you buy.

Flocks are carefully culled and developed on free range. All chicks are hand picked and inspected, no cripples or weaklings. Every one strong and healthy.

100% Live Delivery - Postage Paid Satisfaction Guaranteed. Write Now. White Leghorn and Barred Rock pullets after May 1, at low prices.

Knoll's Hatchery, R. R. 12, Box M., Holland, Mich.



YRONE POULTRY

Let us sell you your 1925 Chicks from pure-bred, select White and Brown Leghorns, Barred, White and Buff Rocks, R. I. Reds, Anconas, Black and White Minorcas, White, Buff, Golden and Silver Wyandottes, White and Buff Orpingtons, Black Spanish, Light Brahmas, etc. Of leading strains such as Barron, Parks, etc.

3000 CHICKS GIVEN AWAY TO OUR CUSTOMERS DURING 1925. We guarantee 100% Live Delivery, Postpaid. Reference: Commercial State Savings Bank, Before ordering Chicks elsewhere, get our special circular containing our low prices and particulars about the 3000_PRIZE CHICKS. FENTON, MICHIGAN.

TYRONE POULTRY FARM, DEPT. 20,



YPSIFIELD HIGH GRADE CHICKS

Ref., First National Bank, Ypsilanti. This is not primarily a Commercial Hatchery, but the Hatchery Department of our modern Egg Farm, established from 20 years' experience in breeding and prolific egg production. YPSIFIELD EGG FARM HATCHERY, Ypsilanti, Mich.

Early Maturing BABY CHICKS

From Pure Bred, Blood Tested Stock

All of our breeding stock has been tested for Bacillary White Diarrhea, and Culled for Egg Type and Standard Requirements. This should greatly aid in the control of White Diarrhea Troubles. Write for prices on our B. P. Rocks, R. I. Reds, White Wyandottes, W. P. Rocks, and S. C. W. Leghorns. MILAN HATCHERY, Box 4 Milan, Mich.



FIRST CLASS CHICKS \$10 per 100 and up. From pur by an expert. 100% Live Delivery Guaranteed. Postpaid prices CLASS CHICKS \$10 per 100 and up. From pure-bred flocks on free range, culled cert, 100% Live Delivery Guaranteed. Postpaid prices 25 50 100 500 1000 87.50 \$10.00 \$

Dundee Chicks

Stock all Pure Bred and Blood Tested for Baccillary White Diarrhea. This assures you of more healthy, sturdy chicks. The kind that live and grow into money making flocks. Flocks have all been thoroughly culled for years by experienced men.

Four Leading Varieties: Barred Plymouth Rocks, Rhode Island Reds, S. C. Mottled Anconas, S. C. English White Leghorns. Write for price list and catalogue describing in detail about our test for Baccillary White Diarrhea

DUNDEE HATCHERY, Box A, Dundee, Michigan

BUY "GENEVA" BURE . HEAVING CHICKS 1000 \$120 140 140



HILLCROFT FARM

A REAL Poultry Farm, not simply a Hatchery. Chicks from pure-bred flocks of the leading heavy laying strains, fed and housed to insure health and vigor. Chicks will please you and satisfy you.

100% Live Delivery Guaranteed. Postpaid prices on 25 \$7.00 S. C. White Leghorns, (Special Heavy Laying Strain) \$3.75 \$7.00 Barred Rocks, S. C. Reds. 4.25 8.00 White Rocks, White Wyandottes. 5.00 9.00 Free Circular. Bank Reference.

HILLCROFT FARM, Box 31, Coopersyille, Michigan.

Poultry

THE IMPORTANCE OF BREEDING.

(Continued from page 419). for a four and a half pound cockerel, at the risk of having my friends and neighbors make an effort to secure a boarding place for me at the State Hospital in Kalamazoo. A few weeks ago I was offered \$50 for the old cock bird, after I had had three years of his service, which offer I refused. This old cock bird was the sire of the pullets in the third pen in the Michigan 1922-1923 contest, and either the sire or grandsire of every hen in our

1923-1924 contest pens. He is the grandsire or great grandsire of about half of all the Single Comb White Leghorns in the 1924-1925 Michigan Egg Laying Contest.

best of any investment I ever made in the poultry game, and would have paid just as well had I been in the game only as a commercial producer or farmer instead of as a breeder.

He sired in 1922 more than one hundred 200-egg hens. He has paid the

The average farmer is already feeding and managing his to-be high record hens pretty well, but is not giving them such breeding as will permit them to develop into the high producers he would like to see them become.

Not every male hatched from eggs laid by a hen with a good record will prove to be the sire of as many high producers as the old bird I purchased from Mr. Tancred, but one is taking less chance when purchasing the sires of their future layers if they buy pedigreed birds with real egg breeding back of them, than if they purchase males of unknown ancestry just because they are cheap or look well.

The great need in the chicken game in Michigan is higher average flock production, and better breeding is the main way by which this desirable change can be brought about.

POULTRY HOUSE CONSTRUCTION.

N his talk on poultry house construction before the poultry producers' meeting at the college, J. A. Hannah stated that the open front house is too cold for profitable winter production. Muslin curtains are not being recommended as they clog with dirt and retard the circulation of fresh air. The Michigan type poultry house recommended by the college has a system of air intake which is proving satisfactory and a diagram of this house can be obtained by addressing the college poultry department,

If a poultry house keeps dry, does not show frost and contains no odor of hens, the ventilation is all right. Dropping boards are necessary and the droppings should be removed each day as they may spread disease. The perches should be on the level. With the step ladder system of roosts the hens fight each night for the highest perch.

Hens need eight inches of perch space for heavy breeds and six inches for the light breeds. The perches should be ten inches from the rear wall and fifteen inches apart. Run the dropping boards the way they are to be cleaned and it is possible to do thorough scraping with the least effort. If the hoards in the hou run the other way, their condition can be improved with a thin covering of asphalt to make a smooth surface which can be cleaned easily. Twoinch poultry netting under the roosts will keep the hens from walking in the droppings.

Concrete Floor Best.

The concrete floor is best for the poultry house. The dirt floor is not good because it is hard to clean. Build up the concrete floor a foot high with sand or dirt and pack it down. One and one-half inches of concrete is all that is necessary to make a strong



Superior pure-bred baby chicks purchased for a few cents a piece grow quickly into steady dollar produc-ing birds. Before you know it the cockerels are ready for market and the pullets have started to lay.

They are bred to pay from such famous prize winning and egg-lay-ing strains as Tom Barron and HollywoodWhiteLeghorns.Hatched in largest hatchery in Michigan. Write for Catalog and special low

prices. Satisfaction guaranteed. Book your orders now for early deliveries. Write TODAY. SUPERIOR POULTRY FARMS ZEELAND, MICH. Superior Pure Bi Baby Chicks

Send for Catalogue

BOWERS Colony Brooder

Burns any fuel--costs less This brooder raises more and better chicks at lowest cost. Stove is sturdy, safe, air-tight, self-regulating—best in world to hold fire. Burns soft coal better than any other brooder. Also burns hard coal, wood, etc. Automatic regulator maintains uniform heat night and day. Canopy spreads heat evenly over chicks, gives pure air.

500 and 1000 chick sizes. Backed by 8 years success. Guaranteed. Express paid E. of Rockies. Stovepipe outfit sent FREE with brooder. Lowest price. Write us TODAY.

F. M. Bowers & Sons F. M. Bowers & Sons 1423 W. Wash. St. Indianapolis, Ind.







Detroit-Alliance INCUBATOR 140 - EGG CAPACITY

Has all the features that insure big hatches double walls, copper tank, complete nursery, perfect heat control through automatic trip burner, "Tycos" thermometer held so chicks can't break it when hatching. Detroit Broeders, too. Write for low combination price today! Detroit-Alliance incubator Co.

PREIGHT

Alliance, Ohio

PREPAIN

GERMOZONE TREATM

White Diarrhea

Remarkable Experience of Mrs. C. M. Bradshaw in Preventing White Diarrhea

The following letter will no doubt be of utmost interest to poultry raisers who have had serious losses from White Diarrhea. We will let Mrs. Bradshaw tell of her experience in her own words:

own words:

"Gentlemen: I see reports of so many losing their little chicks with White Diarrhea, so thought I would tell my experience. I used to lose a great many from this cause, tried many remedies and was about discouraged. As a last resort I sent to the Walker Remedy Co., Dept. 507, Waterloo, Iowa, for their Walko White Diarrhea Remedy. I used two 50c packages, raised 300 White Wyandottes and never lost one or had one sick after giving the medicine and my chickens are larger and healthier than ever before. I have found this company thoroughly reliable and always get the thoroughly reliable and always get the remedy by return mail.—Mrs. C. M. Bradshaw, Beaconsfield, Iowa.

Cause of White Diarrhea

White Diarrhea is caused by the Bacillus Bacterium Pullorum. This germ is transmitted to the baby chick through the yolk of the newly hatched through the yolk of the newly hatched egg. Readers are warned to beware of White Diarrhea. Don't wait until it kills half your chicks. Take the "stitch in time that saves nine." Remember, there is scarcely a hatch without some infected chicks. Don't let these few infect your entire flock. Prevent it. Give Walko in all drinking water for the first two weeks and you won't lose one chick where you lost hundreds before. These letters prove it:

Never Lost a Single Chick

Mrs. L. L. Tam, Burnetts 'Creek, Ind., writes: "I have lost my share of chicks from White Diarrhea. Finally I sent for two packages of Walko. I raised over 500 chicks and I never lost a single chick from White Diarrhea. Walko not only prevents White Diarrhea, but it gives the chicks strength and vigor; they develop quicker and feather earlier."

Never Lost One After First Dose

Mrs. Ethel Rhoades, Shenandoah, Iowa, writes: "My first incubator chicks, when but a few days old, began to die by the dozens with White Diar-rhea. I tried different remedies and rnea. I tried different remedies and was about discouraged with the chicken business. Finally, I sent to the Walker Remedy Co., Waterloo, Iowa, for a box of their Walko White Diarrhea Remedy. It's just the only thing for this terrible disease. We raised 700 thrifty, healthy chicks and never lost a single chick after the first dose."

You Run No Risk.

We will send WALKO White Diarrhea Remedy entirely at our risk—postage prepaid—so you can see for yourself what a wonder-working remedy it is for White Diarrhea in baby chicks. So you can prove—as thousands have proven—that it will stop your losses and double, treble, even quadruple your profits. Send 50c for package of WALKO (or \$1.00 for extra large box)—give it in all drinking water and watch results. You'll find you won't lose one chick where you lost dozens before. It's a positive fact. You run no risk. We guarantee to refund your money promptly if you don't find it the greatest little chick saver you ever We will send WALKO White Diar greatest little chick saver you ever used. The Leavitt & Johnson National Bank, the oldest and strongest bank in Waterloo, Iowa, stands back of our guarantee.

WALKER REMEDY CO., Dept. 507. Waterloo, lowa.

-

L

Send me the () 50c regular size (or () \$1 economical large size) package of Walko White Diarrhea Remedy to try at your risk. Send it on your positive guarantee to promptly refund my money if not satisfied in every way. I am enclosing 50c (or \$1.00). (P. O. money order, check or currency acceptable).

Name	 	٠.		 ٠.	٠.					 		٠.							
Town	 • • •			 			• •		 									٠.	
State.	 	٠.	٠.	 							R	I	r.	1).				

Mark (X) in square indicating size package wanted. Large package contains about two and one-third times as much as small.

floor. A layer of asphalt one-sixteenth of an inch thick over the concrete makes the floor as smooth as glass.

Home-made mash hoppers are the cheapest. The throat of a hopper should be at least four inches wide to prevent clogging. The uncovered mash hopper becomes contaminated with droppings. Uncovered fountains may also become contaminated. Place the pail near the wall and build a roof over it to keep the birds from dropping manure into the water. If you use commercial sanitary fountains, use the kind that can be opened and scrubbed.

The material for a poultry house depends on the amount of money you can spend. Shiplap covered with a good grade of roofing paper makes an economical and satisfactory house. Where the strips of roofing paper lap, they are held on with strips painted white. This holds the paper securely and adds to the attractive appearance of the house.

Lining the roof out beyond the dropping boards helps to keep moisture from condensing above the roosts. Rear windows increase the summer ventilation. If you expect to trapnest, build the nests in batteries on the walls of the house as it is easier to remove hens than from low nests under the dropping boards.

In long houses a door every forty feet in the front of the house or a lit ter carrier helps in removing the litter and droppings. When wallboard is used for inside lining it should be painted with creosote to keep the hens

RABBITS EAT YOUNG.

Can you tell me why my Flemish Giant rabbits eat their young? I feed corn, oats, wheat, apples and cabbage. They are well housed and cared for, and are yeal fat B.B. and are real fat.-B. B.

According to Gibson, an authority on rabbits, the does sometimes eat their young because they have been heavily fed and are filled internally with layers of fat. This fat causes a greate deal of heat and trouble at time of kindling, and gives the doe the unnatural feeling which causes the destroying of the young.

The remedy is to keep the does in just fair weight and breed them again. Feed bread and milk a few days before time for kindling, and continue this every day in the ration until the young rabbits are weaned. Many rabbit breeders are not located where they can keep a cow, which is unfortunate as fresh milk is a great help in keeping the does in condition and the young rabbits growing fine.

POULTRY HOUSE CAPACITY.

I have a hen house eight feet high on one side and five feet high on the other side, twenty feet long and twelve feet wide. How many hens will a building that size house?—J. K.

A house twenty feet long and twelve feet wide will contain 240 square feet of floor space. As a general rule, hens of the heavy breeds require four square feet per bird. In small houses it is better to use four square feet per bird for any breed, so I think your house is about right for sixty hens.

POULTRY PARAGRAPHS.

Dr. H. J. Stafseth, of the bacteriology department at M. A. C., has been granted a year's leave of absence to study and teach in Europe. Dr. Stafseth is one of the best authorities on poultry diseases in the country. So when the Hungarian Foundation wanted a man to instruct in poultry diseases in Hungary, Dr. Stafseth drew the assignment.

The poultry department of the college has 135 demonstration farms throughout the state. The records from these farms show that the cost of feeding a hen one month was thirteen cents.

For Success

I laid 285 eggs in the Michigan International Egg Laying Contest and hold the highest official record over all breeds in Michigan. My profit in one year was \$7.00 above feed cost. Several thousand baby nieces of mine want a home with you and promise to follow my good example for industry and profit.



Good Seed Is a Safe Investment

Grandview Poultry Farm Baby Chicks represent the HIGHEST SEED of EGG PRODUCTION. Let our stock demonstrate and convince you that breeding determines your profits.

Let our SERVICE DEPARTMENT, under the direction of PROF. E.

Let our SERVICE DEPARTMENT, under the direction of PROF. E. C. FOREMAN, shorten your road to success and help you avoid the many unpleasant little detours.

Get our FREE ILLUSTRATED CATALOG. A SERVICE GUIDE, brimful of information, free to all customers—a poultry course without any expense attached.

DEVRIES GRANDVIEW POULTRY FARM, Zeeland, Mich.

CHARCOAL

COARSE--MEDIUM--FINE

From best hard woods. In 50-lb. paper lined burlap bag. Glad to send samples and prices. Nothing better for chicks.

UNITED FUEL & SUPPLY (O.

Free Press Bldg., Detroit, Mich.

CHICKS

FROM REAL BARRON Single Comb White Leghorns START RIGHT

Your future success depends on your foundation start. Start with OTTAWA stock, chicks, or eggs. Then you will have layers that will give you the largest production. Write for your copy of our valuable catalog and price list.

Ottawa Hatchery & Poultry Farm, R. 10, HOLLAND, MICH.



Leghorns
Tancred-Hollywood-Barron
strains

Anconas Sheppard Strain, direct

Bar'd Rocks Parks dark colors

THREE MATINGS 5% Discount THREE MAINUA Special Star: White Leghorns, 250-288 males, Anconas, Sheppard males, Extra Se-lected: All breeds, culled by experts. Selected: Per-sonally culled; very high egg On all prepaid orders placed 30 days before shipment. .

type. Live Delivery Guaranteed. Catalog Free TOWN LINE POULTRY FARM R. R. I, Box 15, Zeeland, Mich.

SUNNY BROOK CHICKS · Husky Livable Chaps

If you want healthy, vigorous, pure-bred chicks from flocks carefully se-lected and tested for heavy laying and standard qualifications typical of the variety they represent, chicks that will mature quickly and improve your Rock, then you want "SUNNYBROOK" chicks.
We specialize in S. C. W. Leghorns, \$13 per 100;
Barred Rocks, \$15 per 100; Rhode Island Reds,
\$16 per 100; and White Wyandottes, \$18 per 100.
In lots of 500 or more 50c per 100 less, 100%
live delivery guaranteed.
Postage paid. Catalog
free. SUNNY BROOK POULTRY FARM,
HILLSDALE, MICHIGAN.

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

LAYING LECHORNS BLACK-BROWN-BUFF-WHITE ANCONAS AND MINORCAS

ANCUNAS AND MINDROAS

Plymouth Rocks, Barred, Buff, White, Rhode Island
Reds, R. C. and S. C. Silver-laced Wyandottes and
White LIGHT BRAHMAS and JERSEY GIANTS.

Write for Prices

CRESCENT EGG COMPANY, ALLEGAN, MICHIGAN Egg Cases, Fillers, Cartons — Everything reguired for packing eggs property; and Jamesway Equipment for Poultry Houses and Dalry Barns



Barron White Leghorns Anconas White Wyandottes

Fancy Stock at Right Prices

White Leghorns (270-300 ancestry)....\$13.50 per 100 Sheppard Anconas (300-egg strain)... 13.50 per 100 White Wyandottes (Evergreen strain)... 18.00 per 100 Odds and ends, broilers...............10.00 per 100 Shipped by parcel post. Safe arrival guaranteed. RELIABLE POULTRY FARM AND HATCHERY, Zeeland, Mich., R. I, Box 47.



OUT IN FRONT AT CONTEST

The Royal White

Leghorn pen at the International Egg Laying contest of 1925 led Laying contest of 1925 led Laying contest of the first two weeks and afterborn class for ten weeks, again took the Leghorn leadership on Jan. 30, and still held it March 1st. High breeding counts. Write for our catalog.

S. P. Wiersma, R. 2, Zee 'and, Mich.



CHICKS WITH PEP

Ohio Accredited. Every bird passed by inspector trained and authorized by the Poultry Department Ohio State University. Prize winners at many shows from National down. Developed for high egg production for many years. Free range flocks in best of health. \$100% live delivery. Thirteen breeds. Catalog free. Prices low, quality considered.

Helgate Chick Hatchery, Box BM, Holgate, Ohio



CHIGAN HAICHERY

Pedigreed, Heavy-Egg Strain Chicks International Egg Contest winners.
Also leading strain Anconas, Rocks,
S.C. Reds. Culled by experts. Modern
batching methods. Guarantee 100%
vigorous delivery. Free Catalog.
Michigan Hatchery,
Box 1, Holland, Mich.

FARROW CHIX

Profit Makers—Early Layers Leghorns, Anconas, Rocks, Reds, Wyandottes, Orpingtons, Minorcas. Lowest prices. Cataalog Free. Address nearest office EADDOW CHICKEDIES D Peoria, Ill., Des Moines, Ia., Milwaukee, Wis., Indianapolis, Ind.



CHICKS That Satisfy Big. husky chicks, from heavy layers, S. C. Eng., White and Brown Leghorns, 12c; Anconas, 13c; Barred Rocks and R. I. Reds, 15c; Assorted chicks, 10c; Class A chicks only. No money down. Pay full amount ten days before chicks are shipped. 100% live delivery. Postage paid. Catalog free.

THE BOS HATCHERY, R. 2-M, Zeeland, Mich.

BABY CHICKS FROM OUR S. C. WHITE LEGHORNS

Every bird in our flock is trapnested every day in the year. If you want to secure Baby Chicks at a reasonable price from high record stock, do not fail to send for our catalogue. STRICK PO!JLTRY FARM, R. 4, Box M. Hudsonville, Mich.



BRED FOR SIZE, TYPE and EGGS SINCE 1910.

English WHITE LEGHORNS

The Big, Deep Bodied Hens with the Large Combs, That Produce the Large White Eggs.

The chicks we offer you this year are from extra selected hens, sired by males out of hens that laid 270 eggs in 355 days these males being sired by a male from a 300-egg hen. The price asked for them is very reasonable. They will bring you bigger profits and absolute

You will be benefitted by our 15 years experience hatching and shipping chicks. Our stock grows up uniform in size, has great vitality and brings big returns in our customers' hands. Let us mail you our catalog with prices. 100% live arrival guaranteed.

ININE WEEKS OLD PULLETS IN MAY.

WOLVERINE HATCHERY H. P. WIEREMA, Prop. R.R. 2, Box 97 Zeeland, Mich.

1,000,000 Babion's Quality



BABION'S FRUIT & POULTRY FARM,

FLINT, MICH

P-U-R-E B-R-E-D C-H-I-C-K-S



From carefully selected, bred-to-lay, high producing strains in the following leading varieties: (S. C. WHITE AND BROWN LEGHORNS, ANCONAS, BLACK MIN-ORCAS, BARRED ROCKS).

We have been in the business many years and our experience enables us to produce Chicks for you that will prove entirely satisfactory to you, just as they have proven year after year with our thousands of old customers.

We guarantee High Quality and 100% Safe Arrival Postpaid. We also guarantee

100 PER CENT ARRIVAL IN GOOD HEALTH

Catalog giving full particulars and quoting our low prices in detail mailed free on

American Chick Farm, Box 115-D Zeeland, Mich.



Pure-Bred Big Value BABY CHICKS

OHIO ACCREDITED, DELIVERY GUARANTEED. Order direct from this adtoday and get chicks which have the authority of Ohio State University behind them. Our breeding stock is inspected and banded by experts trained and authorized by then.

Prices (Postpaid) On:	25	50	100	500	1000	
S. C. Wh., Br. & Buff Leghorns	.\$3.25	\$6.50	\$13	\$60	\$118	
S. C. Mottled Anconas	. 3.50	7.00	14	65	128	1
S. C. Blk, Minor., Bd. Rocks, S. C. R. I. Reds.	. 3.75	7.50	15	72	138	
Wh. Rocks, Wh. Wyandottes, R. C. R. I. Reds	. 4.00	8.00	16	77	144	
S. C. Buff & White Orpingtons		8.50	17	83	160	
Jersey Black Giants	. 7.50	15.00	30			
Odds & Ends (not shipped under accredited label	2.50	5.00	10	50	100	

Free from European fowl pest. Order today with Check or Money Order. Catalog free. SPECIAL QUALITY CHICKS. We can furnish also chicks of especially high breeding. Write for particulars and prices. WOLF HATCHING & BREEDING COMPANY, BOX 4, GIBSONBURG, OHIO.

WASHTENAW Baby Chicks Chicks that are lively and healthy from pure-bred carefully selected stock. One-fifth down books order. Good poultry judges say our flocks are unusually good. Order today. Last year we were not able to supply the demand. Order early this year. Pure-bred, carefully selected, 100% live delivery.

Prices on (prepaid) 25 50 100 500 1000
Bd. Rocks\$4.25 \$8.00 \$15.00 72.00 \$140
R. I. Rocks\$4.25 8.00 15.00 72.00 140
Wh. Rocks\$4.50 8.50 16.00 77.00 150
Wh. Wyandottes\$4.50 8.50 16.00 77.00 150
Wh. & Br. Leghorns 3.75 7.00 13.00 62.00 120

Ref.: Farmer's & Mechanic's Bank, this

WASHTENAW HATCHERY. Geddes Road Ann Arbor, Michigan

R MODERN CHIC



Are hatched from select, pure-bred, heavy laying flocks that have been inspected and culled by experts holding Ohio State University Certificates. OLD CUSTOMERS TAKE 65% OF OUR OUTPUT EACH YEAR. 100% Live Arrival Guaranteed. Bank Reference. Varieties. Post paid prices on S. C. White, Brown & Buff Leghorns \$70.00 \$13.00 \$62.50 \$120 Barred & White Rocks, S. C. & R. C. Reds, Anconas \$8.00 \$15.00 \$72.50 \$120 Barred & White Rocks, S. C. & R. C. Reds, Anconas \$8.50 \$15.00 \$72.50 \$120 Barred & White Rocks, S. C. & R. C. Reds, Anconas \$8.50 \$15.00 \$72.50 \$120 Barred & White Rocks, S. C. & R. C. Reds, Anconas \$8.50 \$15.00 \$72.50 \$120 Barred & White Rocks, S. C. & R. C. Reds, Anconas \$8.50 \$15.00 \$75.50 \$120 Barred & White Rocks, S. C. & R. C. Reds, Anconas \$8.50 \$15.00 \$75.50 \$170 Mixed, \$12 per 100 straight. Order right from this ad. Free Circular.

1. B. C. A. and Ohio Association, MODERN HATCHERY, Box 44, Mt. BLANCHARD, OHIO.

DILIGENT CHICKS DID IT

		LIL I.	
,	Postpaid prices on	50 100	200
	Single Comb White Leghorns	.\$6.25 \$12.00	\$57.50
A	Barrel Plymouth Rocks	. 7.75 15.00	72.50
B	S. C. Mottled Anconas	. 6.75 13.00	62.50
	Mixed Chicks	. 4.75 9.00	42.50
7	Low in price, high in quality. Order right from this ad,	or send for our	catalog.
/	If close in call on us, we are located on the M-11 cemen	t road, 2 Miles	north of
	Holland. We have pullets for sale after May first.		
	DILIGENT HATCHERY, Holland, Mich. Harm	J. Knoll, Owner	

Homer Hatchery (

From healthy free range flocks culled and mated with cockerels purchased direct from breeders who have a reputation for high egg production and color, assuring you strong healthy chicks that grow into money making flocks. Shipped Parcel Post prepaid; 100% live delivery guaranteed. A trial order will convince you. Write for catalogue and prices.

HOMER HATCHERY, HOMER, MICH.

HIGH-GRADE CHICKS Produced from splendid flocks of the best and selected by the policy of the best and selected by the prices on the prices of the prices on the prices of the prices on the prices of nd selected. 00 1000 2.00 \$120 2.00 140 7.00 150 2.00 160 Reference: THE ROWELL HATCHERY, DEPT. 57, HOWELL, MICHIGAN.





An Object to Work Toward

The M. C. Fund to Be Put into Use By Uncle Frank

T last we have an objective for were restless because of the enforced bring happiness to the greatest numand to make the use of the Merry Circle money bring pleasure for a long time. I believe that I have found the way.

Some time ago I wrote to the State Health Department and they suggest-Sanatorium for Tuberculosis at Howell. So I took a day off a short time ago to pay the place a visit.

I told Dr. Toan, in charge of the place, the purpose of my visit and he was delighted with the thought that the state could and would do some-



Frank is Confined to Bed Now, But He Still Has His Smile.

thing for the seventy-two boys and girls who were militantly fighting the dreaded T. B. disease.

He took me over to Columbia Cottage where thirty-five girls are under treatment. There we saw quite a few girls in their beds on the open air porch, clothed to protect themselves from the cold, and amusing themselves as well as they could under the circumstances. Over at Pershing cottage, thirty-seven boys are under similar treatment and many of them were also in bed finding amusement as well as they could.

Many of the children were crippled with tuberculosis of the joints, with their limbs in casts. Especially interesting was Frank, whose picture is shown here. He is now confined to bed entirely with tuberculosis of the hip. When we went to see him, he was getting private lessons, because he can not attend the sanatorium school. He has been there two years, but still the smile of courage and inward cheer was even greater than that shown in the picture.

Rudolph kindly took us from Pershing cottage to the school room. On the way we spoke of the pleasant surroundings. He said, "Yes, it is nice, but I'd rather be home." Rudolph, we learned later, was the youngest of a large family and he was the only one in it who could speak Englishand he spoke it very well.

I believe Rudolph spoke the sentiments of most of the boys and girls there. They wanted to be home and

A the Merry Circle Fund. I want- rest that the cure of tuberculosis reed to get something that would quires. Rest, the doctor said is the chief requirement in curing the disber of unfortunate children possible, ease, and when these boys and girls gain the vitality necessary to fight the trouble, they want to be active.

Dr. Toan and I talked over the situation and we both thought it would give the young folks great pleasure if they could be entertained by radio. ed that I get in touch with the State It would help to divert their minds and to make their enforced rests easier to take.

So, in behalf of the Merry Circle Fund I promised a radio for each cottage. This would give pleasure to those who will come for a long time the farm boys and girls throughout in the future. Each radio will have a little plate on it indicating that it was presented by our Merry Circlers. It seems to me that it would be a very worthy, and almost permanent investment for the Merry Circlers in good cheer for the unfortunate.

To properly equip these two oottages with suitable radios, loud speakers, etc., we need about two hundred dollars more than we now have.

I know that the raising of this money will be no great task to the thousands of boys and girls of the Merry Circle who want to bring good cheer to others. I feel sure that you will want to use this as an opportunity to fulfill that part of the Merry Circle creed which refers to the spreading of happiness. This will give us a real practical opportunity to demonstrate our unselfishness, our regard for others, our Christian spirit. Our nickles. dimes, quarters or dollars will be as bricks to the monument which the Merry Circlers will build for ourselves through the spirit of unselfishness we

Would it not bring happiness quicker, and would it not be a greater credit to us if we could reach our objective in a short time. Let's see what we can do. Your share in this joygiving task should be sent to the Merry Circle Fund, Michigan Farmer, Detroit, Michigan.

Our Letter Box

Dear Uncle Frank:

I have read Marcia Rowe's letter. I do not think it is very nice for a boy to smoke. But for me I would rather see a boy smoke cigarettes than chew tobacco. This would be another good suggestion for you. "Would you rather see a boy chew tobacco than smoke cigarettes?" cigarettes?

Mr. W. B. will surely choke if he gets this letter. I will close.—Your niece, Alta Thomas, Clarksville, Mich. I think I'll take part in this discus-

sion. I don't like either smoking or chewing. There is no excuse for either; they're just habits that do no one any good. But let's hear from others.

Dear Uncle Frank: My burning ambition is to be a teacher, but as "A Silent Reader (heretofore)," has expressed my feelings much better than I can on the subject, I won't take up more of your time than is necessary.

à

Ŕ.

What I am really writing about is the Merry Circle Fund. As Uncle Frank said, "We have to build the foundation first, and as in the building foundation first, and as in the building of anything, the foundation is a necessary but unnoticeable part of the work." How long would it take us to lay the foundation as there are now somewhere around 15,000 members? Someone suggested, "Why not have a Denial Week?" I think it is a very good plan. I know there are many who have already sent in donations, so this does not necessarily include



\$502 Net Profit In 3 Months From 250 B.F. White Leghorn Pullets

That's what Mr. I. Wade of Fennville, Mich, made in three months time from pullets raised from chicks he bought of us last spring. You can make big money with our profit making chicks.

CHICKS - - - CHICKS

Our stock is strong, healthy, free range, Tancred and Tom Barron White Leg-horns—S. C. Rhode Island Reds—Parks' Barred Rocks—the best blood lines in the country. 100% live delivery guaran-teed, postpaid. Big, fine catalog free.

8 to 10 Weeks-Old Pullets

We specialize in 8 to 10 weeks-old pullets. Extra choice ones at prices that please. Write today.

Brummer-Frederickson Poultry Farm





AT PRICES YOU

GREAT NORTHERN HATCHERY, R. 3, Box 56, Zeeland, Mich.





From sturdy, healthy free-range flocks. Fluify, lively youngsters that should grow fast, and get on an all-year-round egg laying basis. From carefully mated high-egg-producing strains, tested and culled to insure exceptional vigor and laying ability. This stock and our scientific hatchery process chicks that live, grow fast, lay early Selected for iform size and color so they will grow into beautiful cks of which you'll be proud. Place your order before routput is taken by others. Order new for present-or ture delivery. Leading varieties. Live delivery aranteed. Postpaid. Write for new chick booklet. H. L. Carl, Box 100, Montgomery, Mich.



盔

INSPECTED "GOOD LUCK";
QUALITY CHICKS. All best
most beautiful breeds, 10c & up.
BIO BEAUTIFUL ART BOOK
Showing them in their neutral colors.
Chock full of valuable information on raising our "GOOD LUCK" CHICKS, how to
make BIG MONEY with Poultry, full
wises, etc., sent free NOW.
Neuliauser Hatcheries,
Box 62 Napoleon, Ohio, Bank Ref.

SEND NO MONEY of SILVER CHICKS

Just mail your order, we ship C. O. D. and guarantee prepaid 100% live delivery of sturdy, pursbred chicks from healthy, bred-to-lay flocks. Wh. Br. Buff Leghorns, 13c; Bd. Rocks, 14c; Wh. Br. Buff Rocks, 14c; Wh. Br. Buff Rocks, Buff Ord. Wh. Wyand., 10c; Mixed, 19c; Blk. Minorcas, 15c.

Silver Lake Egg Farm, Box M, Silver Lake, Ind.

them, but I know we are all glad to do our bit. I am including my second donation, and I hope it will help our good work along.

Good wishes to the Merry Circlers. Sincerely, "Hope."

The Merry Circle Fund has been growing slowly, but it's like all building; when the foundation is done, then you begin to see it. In a short time it is going to take new life and will grow fast.

POETRY CONTEST.

I T is getting the time of the year when poets have the urge to put on paper the inspiration spring gives gives them. I think that a lot of our young poets have this urge in common with others, so to help to materialize the inspiring thoughts they have, we will have the next contest on spring poetry.

Any original poem by any boy or girl under eighteen years of age may be submitted to this contest. The poems should be on Spring. Preference will be shown to those not over twenty-five lines in length.

The writers of the two best poems submitted will get fountain pens as prizes; the next three best will be awarded dictionaries, and the next five handy pocket knives.

This contest closes April 3. So send your poems to Uncle Frank, Michigan Farmer, Detroit, Mich., early enough to get here in time. Put your name and address in the upper left hand corner of your paper. If you are a Merry Circler, put M. C. after your name. All who send good poems and are not M. C.'s will get buttons.

THE CONTEST WINNERS.

THIS contest brought a lot of interesting drawings, many of which showed that the Merry Circlers have artistic ability as well as a sense of humor. I was glad to receive the funny drawings of myself as they gave me a chance to have a lot of good laughs.

One Merry Circler must have been able to see through me, as she drew a chart of the human body showing the heart, lungs, stomach and other organs, and submitted it as her drawing of what I looked like. I must admit that in general I believe that I am made according to the specifications submitted, but sometimes the way my anatomy works, I wonder if there isn't something missing.

Another submitted a copy of the prize winning drawing in a similar contest we had over a year ago. Of course, it did not win a prize.

The prize winners are as follows:

Fountain Pens. Harold Coles, Montgomery, Mich. Albert Alfredson, Whitehall, Mich.

Dictionaries.
Emma Sapatka, Wellston, Mich.
Donald Lawyer, R. 1, Ada, Mich.
Glenn Hornbaker, R. 2, Lake City,

Knives.
Reuben Johnson, R. 1, Hermans-

ville, Mich.
Dorothy Pinnow, Farmington, Mich.
Russel Carter, Middleville, Mich.
Florence Cogan, Falmouth, Mich.
Ariel Denton, Saranac, Mich.

BENEFITS OF SCHOOL.

I go to school to get my education. In school I learn manners. I learn to do arithmetic and grammar. In geography I learn all about the earth and people, how they work and live. If I would not go to school I would not know how to do arithmetic, grammar or geography, and I would not be able to read, nor to spell words if I wanted to write something. School is a great use for every child.

Three years ago I came from Switzerland and I notice the difference in schools. The schools in Switzerland are much better than the schools here.

The only way a boy or girl can become a Merry Circler is by taking part



A Bag of

combined with water will bind together several cubic feet of sand and twice as much stone or gravel.

Result: handsome, permanent improvements that you will never have to replace because of rot, rust or fire. ALPHA CE-MENT improvements require no paint. They save you money year by year.

Alpha Portland Cement Company CHICAGO, ILL. RASTON, PA.

Battle Creek, Mich. Ironton, Ohio St. Louis Pittsburgh

Philadelphia Boston New York

The ALPHA Dealer is the Cement-Service man of your community Call on him



Pure Bred Baby Chicks \$8.00 Per 100 and up

We are now booking orders for May and June chicks, from our high grade Anconas and White Leghorns. These chicks are from extra selected hens mated to Tancred and Sheppard males. We insure our chicks for one week. Write for our catalog and prices before you buy, we can save you money.

R. 4 Box 6, Zeeland, Michigan

Riverview Chicks

M. D. Wyngarden

big fluffy, by prepaid parcels post, 100% live, and good condition guaranteed. From our Strong, Healthy, English type White Leghorns. Culled by expert from State University. We hatch all our own eggs and can save you money on that chick order. Become one of the many satisfied customers.

Gentlemen:

I am an old customer, having bought chicks from you every year for a number of years back and have always had good results from your stock, and am confident that you give everybody a square deal, the chicks that I received last year are shelling out the eggs, and have all winter since last fall. Kindly send your free mating list with prices. Yours truly, W. F. Agard, R. 1.

RIVERVIEW POULTRY FARM, Route 2, Box 94, Zeeland, Mich.

Blood-Tested Baby Chicks

City Limits Hatchery,

Rt. 5, Box 11,

Holland, Michigan.

HOLLAND HATCHERY

CHICKS from heavy winter laying stock produced by MICHIGAN'S OLD RELIABLE HATCHERY. Pioneer Breeders and Hatchers, operating the best Hatchery in the State. Pure-bred TOM BARRON and AMERICAN WHITE LEGHORNS, Anconas, Barred Rocks, Rhode Island Reds. Strong, well hatched Chicks from Hoganized, free range stock, By insured Parcel Post Prepaid to your door. 100% Live Delivery Guaranteed, 17 years experience in the business and giving absolute satisfaction to thousands. Get valuable Illustrated Catalog free, and lowest prices before placing your order elsewhere. VAN APPLEDORN BROS., HOLLAND HATCHERY AND POULTRY FARM, R. 7 C, HOLLAND, MICHIGAN.



be a reason why 75% of last year's customers have reordered this year. Our White Leghorn baby chicks are proven profit producers. Quality stock with the fancy prices. Catalog froe—send for it today.

Karsten's Farm, Box 25, Zeeland, Mich.

Chicks and Hatching Eggs from Leghorn Flock which produced first and third pens in 1924 Michigan Contest. Every male son of 240 or more egg hen. Chicks \$20. eggs \$9 per hun-dred. W. C. ECKARD, Paw Paw, Mich.

BABY CHICKS

\$12.50 Per 100 and Up
We are listing 12 varieties of Pure Blood Farm range stock. Chickens, Ducks and Guineas. Write for price list. CLINTON HATCHERY & POULTRY FARMS, Wilmington, Ohio.



Additional Poultry Ads on Page 441

PROVED SWEDISH TREATMENT STOPS

Famous foreign treatment quickly relieves badly infested herds. Gives amazing results in cases owners believed hopeless. Formula available for every farmer.

Complete freedom from the ravages of the terrible abortion plague is now assured every worried farmer through a famous Swedish treatment. For many years it has been used with complete success in the old country, banishing this disease from whole dairy sections literally rotten with abortion.



After great expense of time and money the formula was reproduced and given to farmers in this country. History repeated itself. Herd after herd was rid of this disease. Even cows considered hopeless were restored to health and produced fine, sturdy calves.

Saved Every Calf

Frank H. Halfman, Crown Point, Ind., is one of hundreds of grateful users, he says: "Two years ago for a period of three months I lost every calf in my herd of forty cows. All abortion remedies failed-I was desperate. I heard of your C. C. C. treatment, used it and have never lost a calf since. It completely stopped my abortion troubles."

For nine years the form of this coelly given

For nine years the fame of this easily given For fine years the rame of this easily given treatment has spread from breeder to breeder. Today it is distributed on an absolute binding guarantee that it will stop every case of abortion; that every cow treated will deliver a normal calf or the treatment cost is refunded. Such a broad guarantee is possible only because C. C. C. is practically 100% successful.

Send No Money

Mr. John W. Froberg, who is a native of Sweden and is responsible for introducing this treatment in the U.S. A. will gladly send every farmer troubled with abortion full information about it. Don't send any money—just your name and address to Froberg Remedy Co., 13 Lincoln St., Valpariso, Ind. Full details will be mailed you without any obligation. Read the wonderful true story of C.C.C. You will be surprised how easy it is to treat your herd, how little it costs, how quickly you get results.



Send No Money 30 Days' FREE TRIAL -10 MONTHS TO PAY

No deposits—No notes to sign—No obligation to buy! You use the imported Harp Separator 30 days absolutely FREE. Fully guaranteed. Europe's standard for more than 22 years. If you don't find it the closest skimming, easiest turning, quickest to clean separator on the market, send it back and the trial will have cost you nothing. Sizes to fit every need from 225 lbs. to 1000 lbs. capacity. Easy terms as low as \$3.75 a month. Write for Free Folder. Get Bargain Prices. THE MARP SEPARATOR CO. Dept. 2008

PATENTS "Write for my free Guide Books, "How to Obtain a Patent" and "Invention and Industry" and blank before disclosing inventions. Send model or sketch of your invention for instruction. Promptness assured. No charge for above information. Glarence A. O'Brien, Registered Patent Lawyer, 659 Security Bank Building, directly across street from Patent Office, Washington, D. C.

Brings Any Size



sanus of enthusiastic owners. Skims thor-oughly. Unmatched for easy turning. Easily cleaned. Flushes completely—saves cream. Made in capacities from 850 pounds down to one-cow size. Allowance Made on Old Separators of Any

SOLD DIRECT

You buy direct at low, fac-tory prices on our new, re-duced easy payments.

Shipped promptly from Chicago. FREE CATALOG

Do not fail to get our fully illustrated catalog first. See our extremely low prices and liberal, easy terms, WRITE TODAY.

American Separator Co. Box 24E Bainbridge, N.Y.



From City Lot to Dairyman

By Art Lousdorf

INE years ago, Ben Spencer, city born and city raised, became interested in dairy cows. At that time he started with two heifers. Today, he is one of the leading pure-bred breeders of the Upper Peninsula. One year, or to be exact, thirteen months ago, he owned about fifteen scrubs or so-called native cows-today he has twenty-one pure-bred registered Holstein cows, eight heifers and three bulls, a total of thirty-two head.

It Is An Interesting Bit of History. It all happened like this: In 1915 when Mr. and Mrs. Spencer became the happy parents of a bouncing baby boy, Grandpa Spencer modestly suggested that in order to give this boy an equal chance with other children, he must have lots of clean, fresh milk. But the Spencers had lived in the city all their lives and knew little about cows. The dairy industry of Iron Mountain had not been developed very extensively at that time and it was difficult to get ideal milk for babies. So there was only one thing to doto keep their own cow.

Two promising young native heifers were purchased. Soon after they both became fresh and the milk began to flow. To their surprise the baby could not drink all the milk that these two cows produced. Even after the whole Spencer family were replenished, there was still milk left over.

Their neighbors became attracted by these handsome heifers and begged that they be allowed a supply of this extra milk. It was arranged, and before long there were quite a list of neighbor patrons. They were establishing a big commercial dairy business but didn't know it. The patrons were satisfied, the dairy prospered, soon they had more patrons than milk to supply. Mr. Spencer went out to buy another cow-that meant more milk, but it also meant more patrons. The little dairy continued to prosper until the herd consisted of six dairy cows. There it halted. It was a farm in the city and farms in cities are impractical as well as unpopular. As the cows promenaded, the neighbors grumbled, the Spencers saw it all.

One morning they learned that there was a little forty-acre farm for rent near town. It would make an ideal place for their dairy; spacious meadows for their cows to graze in; cosy gardens for their baby to play inthey moved.

Worked Ten Hour Shifts and Milked Six Cows.

To own six cows was a fine start for a city man, but not enough income to make a good living. Fortunately this new farm was near a big lumber mill. Ben was of a restless disposition, the six cows didn't make enough money nor enough work, so he attached himself to a ten-hour shift handling logs and lumber at the saw mill.

Now his day was complete. He labored ten hours at the mill, walked and forth, milked SIX COWS, rea, watered them, delivered the milk. During his spare time he read farm papers, which made him even more am-

Fireworks Started.

October, 1922, he joined the Dickin-He helped the county agent organize the association and as a reward they made him secretary without pay. Up to this time he owned fifteen native cows. His milk business was still prospering and growing. He needed he could buy some pure-breds at a bargain. Mr. Spencer bought four head. The first time the cow tester came around, Mr. Spencer learned that two of these cows milked sixty-five pounds a day, as much as five of his natives. At first that astonished him, later it led him thinking. After that when he needed more milk, he bought purebreds. He made arrangements with the bank and paid for these cows on the installment plan from the earnings of his milk checks.

1923 was a good year again. His business almost doubled and as he needed more milk, once more he bought more pure-breds, until thirteen months later, November, 1923, he owned twenty-one pure-bred cows, eight heifers, a herd bull and two bull calves. All in all, thirty-two head. The herd bull he purchased was nine years old. He wanted a proven bull so he had to buy an aged bull who had already several good milking heifers.

Herd Worth \$4,000.

The value of Mr. Spencer's herd is estimated at \$4,000. If he should sell his herd today that is what he might realize. If he had not made this change from scrubs to pure-breds his herd would only be worth about \$1,000. Calves from these grade cows were worth little or nothing, especially the male calves. Now his pure-bred male calves are worth \$30 up, and his heifer calves \$60.

Grades vs. Pure-breds.

Berg, the official cow tester, shows some surprising results as a comparison between the grades and purebreds. While there are always some farmers who believe pure-breds show up much better than the grades, although the pure-breds were at a big handicap during the year in so much that they all had to undergo the change in management and feed.

By taking eight of the best purebreds and eight of the best grades from the herd and comparing their records, it shows that the pure-bred did much better.

Average production per cow based on whole year:

Lbs. Butter-Milk. Fat. Eight pure-breds ... 10,028 Eight grades 5,954

The best pure-breds produced in nine months 14,184 pounds of milk and 575 pounds of butter. The best grade in the herd produced 8,172 pounds of milk and 405 pounds of butter.

Spencer was one of these men that had the courage to go ahead and undertake big things. Many dairymen have the same opportunities but not the courage to make the investment. It is Spencer's ambition to own and milk one hundred cows.

PASTURE WITH A SILO.

M ORE acres are devoted to pasture in the United States than to allother crops combined. The pasture land, then, is the biggest part of our farm in area; and the question arises, are we keeping account of its earnings?

On the average farm the pasture son County Cow Testing Association. represets the rough land, if there is such, which is poorly adapted for cultivation. It may be the hills, but again it may be some of the very best land we have.

Few farmers keep accounts with their different fields and crops, and more milk. The tester told him where even those who do rarely include pas-



Combination Insecticide and Fungicide. Two Sprays in One Application. Sure Death to Pests—

because of its higher per-centage of Arsenic Oxide. Renewed Life to Foliage by reason of its ex-tremely high copper con-tent. Absolutely safe and will not burn. Sticks tight.

One Acre Pest Insur-ance for \$2.50—One 5-lb. package of P. B. K. will effectively treat one acre of truck, potatoes, cauliflower, tomatoes, cabbage, tobacco, melons, cucumbers, etc. 1-lb. package 55 cents. Apply when bugs appear either as a dust, or as a spray in 50 gallons of water. Not for fruit trees. Send for Spraying Guide, gratis: trees. Send for Spraying Guide, gratis; also testimonial proof of P. B. K.'s value in treatment of hundreds of acres at one time. Write Dept. Q-3

John Lucas&Co.. Inc.

Paint and Varnish Makers Since 1849
PHILADELPHIA
Ork Oakland Fresno Jacks
Chicago Acheville Memphis
Boston Denver Houston

"Purposely Made for Every Purpose"

aris Green Calcium Arsenate Bordo Mixture Dry Lime Sulfur Arsenate of Lead Bordo-Arsenate







HERE is the silo for your farm-at a price that you can pay. It is easy to set up by your own labor. Erecting brackets are furnished with it. Storm-proof—fire-proof—and practically freeze-proof. The



ZED METAL SILO

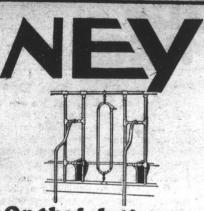
has many new features. It is of the permanent type, but you can add capacity at any time it is needed. The doors are continuous, and they are all the same size. The chute is rigid, extremely well built. Once erected, this silo requires no expense or labor for upkeep.

The Copper-ized Metal Silo will produce the best possible silage, containing the fullest food value and keep it indefinitely. Copperized Metal has been used in silo construction for over 12 years, and there is nothing experimental about this.

Write today for catalog and prices. Special offer to club buyers. Agents wanted.

THE THOMAS & ARMSTRONG CO.
Dept. D London, Ohio
Established 1904

n. le.



On the job 46 years

You've got to give honest, solid value to hard-headed farmers to reach your 46th milestone of business service.

The men who run the Ney business take pride in making quality products and believe in selling them at a price that means 100% value to the buyer. This policy has won customers and built our business. Write today for catalog No. 47. The Ney Manufacturing Co., Canton, Ohio

Minneapolis, Minn. Council Bluffs, Iowa
Complete Dairy Barn Equipment including stalls,
stanchions, water bowls, pens, litter carriers, etc.
Complete line of Haying Tools including
hay carriers, hay forks, hay knives, etc.







C 6 Size WRENCH 5-16" to 5-8" SET

Sizes 5-16 inch to 5-8 inch on ring; stamped from hard, cold-rolled steel; white nick-eled fluish; fit hexagon or square nuts on auto, radio, lawn mower, corn sheller and other articles. Send 25 cents for complete set of six.

ONLY 5 0 C TO END BROKEN HAME

Premax Hame Fastener is the only flat link fastener; quick, easy lever method of adjustment; pressed steel with rust-proof finish; adjustable-never too tight or too loose; spring shap—cannot drop off when harness is removed. Send 50 cents for pair.

BROCHICTS INC.

ARAB PRODUCTS INC., Dept. J-5 Niagara Falls, N. Y



14

ture as a crop. Pasturage is often looked upon as a necessary evil and is grudgingly given a plat of land. No doubt if its true record were known it would be give still less area, for the fact is that pasturage is inclined to be our poorest crop. Blue grass is our common pasture plant and makes up the great bulk of our pasture land. It has a habit of growing and producing liberally when there is plenty of rain and the sun is not too hot. But, unfortunately it is short lived, being generally productive in May and June and some years in September. In much of our crop producing country we do not have over three months of good grazing on blue grass, and it is extremely difficult to get interest and taxes from even \$100 an acre land devoted to pasture.

The silo is the best known substitute for pasture, and where land is valued at more than \$100 per acre, very few acres should be devoted to pasture, for this same land put into good corn and that put in the silo would produce six to seven times more feed than if it is left in pasture. From my experience I would prefer a silo in summer to one in winter if I could have but one, but a winter and summer silo makes on the average stock farm by far the most economic feeding arrangement.—A. L. Haecker.

KALAMAZOO COUNTY HOLSTEIN BREEDERS MEET.

THE annual meeting of the Kalamazoo County Holstein Breeders' Association was held March 11 at Oshtemo. The main interest of the gathering centered around a discussion of how to improve the usual strong showing of Holsteins at the county fair. Among the points raised was that the fair board be requested to add a division for cows of each breed with cow testing association records—breeds to be judged separately, but pure-breds and grades of each breed to compete in the same class. To be eligible for entry in the Michigan Record Performance-280 pounds of fat as a twoyear-old, to 400 pounds as a full aged cow. Two prizes to be offered in each class.

Calf club work and area testing for tuberculosis eradication came up for discussion. The breeders decided to hold a tour next July or August, accepting the invitation of Mr. Yager to picnic on the State Hospital grounds.

Dues in the association were reduced to \$1.00 per year. R. L. Olds, county agent, and Phil Sexton, secretary of the Kalamazoo County Farm Bureau, were present and helped in discussions. J. G. Hays, secretary of the Michigan Holstein-Friesian Association, made a short talk pointing out a few things that the breeders could do to help the Holstein breed in their county.

Meeting adjourned to meet late this month with Mr. Yager to elect officers, the present president W. E. Balch, and present secretary, Roy Buckham, holding over.

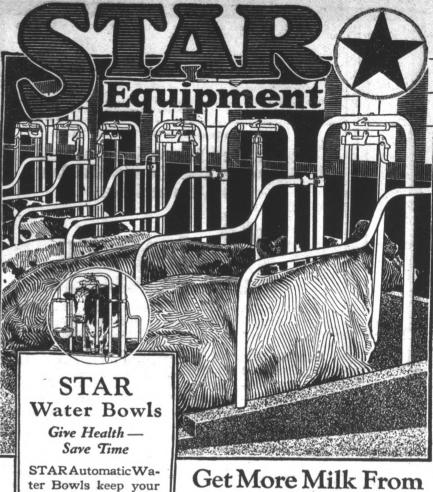
SHIAWASSEE COUNTY HOLSTEIN ASSOCIATION.

A BANQUET on Thursday evening, March 12, at the Hotel Wildermuth, Owosso, ushered in the annual meeting of the Shiawassee Countries. ty Holstein Association. Some forty banqueters enjoyed the following program:

The business session following the banquet revealed the finances of the Danquet revealed the finances of the association to be in good shape, over \$100 being on hand. As a good share of this fund accrued from the county sales manager system of selling surplus stock of the members, it was decided to continue the system with the former manager. former manager, Fred Martin, of Owosso, in charge.

Owosso, in charge.

Officers elected included C. S. Baldwin, of Bennington, president; Mrs. Burt Nowlin, of Laingsburg, re-elected as secretary-treasurer; J. Fred Smith, of Byron, vice-president. The four directors elected were Charles Paine, of Durand; Fred Martin, of Owosso; Jay Bowlby, of Ovid, and Dan Dutcher, of Owosso.



Your Present Herd—

You don't need more cows to get more milk; the cowsyou have now can give you a surprising increase if you install STAR Barn Equipment. A cow gives just as much milk as her condition enables her to manufacture — if you improve

her condition you increase her yield. Find out why STAR Equipment will give the greatest comfort and results. [Send Coupon for full details Today]

HUNT, HELM, FERRIS & CO., Harvard, Ill.

San Francisco

STAR Stalls andStanchions come assem-bled complete, ready to put in place.

cows supplied with

clean water at all times.

And with plenty of wa-

ter cows feel better

and give more milk.

Minneapolis

Albany

Los Angeles

Hunt, Helm, Ferris & Co., Dept. D 56, Harvard, Illinois
Gentlemen: I havecows,horses,young stock. Please send me free
floor plans and other suggestions. I am considering $\left\{ $
Name
Address

Selling Paints Direct to Customer We want a selling repre-

sentative in every community to sell our paints, stains, enamels, etc. Big Commissions.... Get territory now. Grand Rapids Varnish Corporation, 569 Godfrey Ave., S. W.,

Grand Rapids, Michigan.

Mention The Michigan Farmer When Writing Advertisers

to peak.

Special Terms if you order Now!

Agents wanted in open territory.

MICHIGAN SILO COMPANY, Kalamazoo, M Factories at Kalamazoo, Mich., Peoria, III., Bleomfield, Ind.



The vibrationless bowl skims and delivers better than 99% of butter fat. Lacta's records have never been beaten in competition. We challenge the world to equal Lacta's performance in close skimming. Lacta is also the easiest of all separators to clean and sterilize.

30 Days' Free Trial

Just select the size you need-it will come to you at once. We will prepay the freight. Note the easy starting, easy running, simplicity of construction and your increased cream production, If after trial you are dissatisfied, return the Separator at our expense. \$2400 Made in five sizes.

Write today for Calalog and Sales Plan

BALTIC SALES COMPANY, Inc.

United States Representatives
Dept. W310, 105 S. La Salle Street, Chicago

Send no Money FREIGHT PREPAID only \$600 a month if satisfied An Ironclad written Guarantee.





will reduce inflamed, swollen Joints, Sprains, Bruises, Soft Bunches; Heals Boils, Poll Evil, Quittor, Fistula and infected sores quickly as it is a positive antiseptic and germicide. Pleasant to use; does not blister or remove the hair, and you can work the horse. \$2.50 per bottle, delivered. Book 7 R-free.

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

W. F. YOUNG, INC., 468 Lyman St., Springfield, Mass.





The Newton Remedy Co. Toledo, Ohie.

Throws

And Blows

Saves One





HANDLING CHILLED LAMBS.

NOT infrequently despite good management of the flock at lambing time a mishap occurs and a lamb gets chilled, possibly due to some ewe lambing a day or two before expected, or a sudden change of weather following a few warm days which catch the flock unprotected. I know from experience in handling early lambs that the flock master must keep himself in readiness to meet any emegrency, for unexpected things will occur and chilled lamb is no exception when lambs are dropped during the changeable weather of the late winter and early spring.

Foresightedness to prevent lambs getting chilled is far preferable to any kind of treatment and cure. Chilled lambs are very difficult to restore to normal life. The chilling has had a tendency to disturb the entire body organization and the patient being so young and undeveloped to respond to any form of medical treatment makes such cases very difficult to handle. My experience has been that every precaution should be exercised to prevent an accident rather than undertake the tedious task of restoring a well-nigh hopeless victim to life.

Lambs that are not too badly chilled may be restored by laying them in a box or basket with warm bricks in the bottom, and packing the patient with hot water bottles. The artificial heat in a little while will assist in restoring life and the lamb may be returned to its mother to nurse, but should be closely watched to avoid again getting chilled. Lambs that have become cold, yet possess a spark of life may be revived by the warm water treatment. Put the lamb in a large pail or tub partially filled with as warm water as the hand can endure. Submerge the lamb, holding the head above the water. Add more warm water to keep the temperature up. When life is restored remove the patient and thoroughly dry him. Feed him nothing but his mother's milk .- Leo C. Reynolds.

HANDLING THE WOOL CROP.

Y EARS ago when I did my own shearing, I used a platform made of matched material. But, during more recent times, we have employed a person with a shearing machine, and the work is done on the barn floor. The floor is thoroughly swept before we start to shear, and then reswept after each fleece has been removed.

The price you get for wool is going to depend upon the way the fleece is handled after it is taken from the sheep. The edges should be folded over properly and the fleece laid upon the wool-box. The fleece should then be folded toward the center in an orderly way, the sides of the box lifted, and the twine tied neatly. Do not use binder twine. Wool twine is necessary. Do not try to tie the fleece without a wool-box. Some sheepmen use pegs, but the fleece never looks as it does when tied in a box.

any length of time before marketing, it should be carefully packed to avoid shrinking. Wool dries out from exposure and loses weight as well as in market value.—L. R.

VALUE OF BEET TOPS.

OUR experience is teaching us the value of sugar beet tops. We used to disregard them, except perhaps to curse them a little when they interfered with the tillage tools the following spring. We soon noted the greatly increased growth of the small grains it is the fair way to do."

that followed sugar beets, wherever the tops had lain. Also, we are feeding them to the cattle and hogs now for the third season and attaching more and more value to them. We have taken more pains with them this last year than ever and are getting better returns. I can not see but that our cattle have done fully as well on them as on good corn silage when fed in about the same quantity and in connection with some dry roughage. They make a very good substitute for silage and cost only a little handling.

The boys recently hauled up a fresh supply from the little piles in the field. We are still feeding them, and it is much later in the winter than we ever thought we could successfully hold them. There is more or less white mold appearing on the raw surface where the top was severed from the beet, and the leaves are somewhat worse for weather, but the cows will leave bright corn fodder unnoticed and wait for them, and bawl for them, which is first class evidence that they still relish them. If there are any left when time comes to work the land in spring, they will be spread out over the ground as evenly and as carefully as if they were manure.—P. P. Pope.

LAMBING TIME.

AMBING time is always a very ind teresting time for the flockmaster. Some years very little trouble is encountered at lambing time, and then again, seemingly under the same prudent management, endless trouble accompanies the lambing season.

Trouble at lambing time always has some definite cause. Lambs dropped deficient in development, ewes encountering trouble lambing, or lack milk for the new-born offispring, are troubles invariably traceable to improper management during pregnancy. Without growth-producing and home-making materials nature cannot perform her acquired work and function successfully. Lambing time reveals how well the ewes have been cared for during the period while carrying their young.

It has always been my practice to keep a record of my flock at lambing time. If there is an unusual amount of a certain kind of trouble there is some definite cause that can be remedied. If the ewes have been kept too fleshy or under-fed, lack of exercise or fed a too narrow ration to meet their need during pregnancy, such errors should be known and corrected.

FARMERS BELIEVE IN BETTER STOCK.

A N unusual amount of sound counsel on questions of live stock breeding is contained in recent reports received by the United States Department of Agriculture from stockmen throughout the country. The following terse statements seem suitable for consideration by farmers seeking to improve their hards and flocks.

"The choice of a herd sire will likemake or break you in the dairy If the wool crop is going to be held game. If you pick a good one, the price you pay is of little consequence; if you pick a poor one, you will pay too much, even if you get him for nothing."

"Pure-breds are better sellers and make more meat for the amount of feed and length of time."

"When young untested stock is sold," the breeder should keep in touch with the purchaser so that if the stock does not turn out as it should through no fault of the purchaser, the breeder can make the deal right. It pays directly and indirectly, aside from the fact that

ever

feed-

now

hing

We

this

ting

that

l on

fed

con-

hey

lage

resh

eld.

t is

ever

nold

hite

ace

the

hat

and

em,

hey

left

in

ver

illy

pe.

in-

ter.

en-

len

ru-

ac-

las

ped

ın-

ilk ou-

th-

ng

er

ul-

ell

ng

ıg.

to

ng

nt

is

m-

00

se

et

BREEDERS' DIRECTORY

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

Registered Aberdeen-Angus, six bulls from eight to sixteen months, large and growthy. Price reasonable. F. J. WILBER, Clio, Mich.

Reg. Guernseys For Sale Springing cows, bred heifers, Bull calves.

Registered Guernsey bull and heifer calves. May Rose breeding. A. R. records. Walnut Hill Farm, Milford, Michigan.

Reg. Guernsey Bull T. B. Tested, five years old. Four price \$160. HILDRETH & LEE, Bailey, Mich.

For Sale Beg. Guernsey Cows, Bulls and Bull Calves. A. R. Record May Rose Breeding. JOHN EBELS, R. 2, Holland, Mich.

FOR SALE Registered Guernsey cows and heifers, F. W. RUEHS, R. 2, Caledonia, Mich.

BANG

Sold Under the Hammer at Auction, Ma ch 31, 1925

9---Registered Holsteins .-- 9

4---Cows to freshen at time of sale .--- 4 2--- Cows to freshen soon after sale .--- 2

2---Yearling heifers---2

1---Excellent herd sire .--- 1 All Segis-Lyons breeding. T.B. Tested. Also tools, hay and horses.

H. C. Ruggles

1 mile north and 1/2 mile east of Moorepark, Mich.

1885 Pontiac 40 Yea's Pontiac 1925

The Pontiac 40 Yea's Pontiac 1925
The Pontiac State Hospital Herd has produced some of the most famous animals of the breed, including King of the Pontiacs. Pontiac Clothide DeKol 2nd, the first 1.000-lb. fat cow, and Pontiac Irene, World's record 2-yr.-old.

The highest record ever made by a Pontiac bred animal has just been completed by Pontiac Barine, 39.06 lbs. butter in 7 days, 158.79 lbs. in 30 days as a Sr. 4-yr.-old.
What herd has been more prominent than Pontiac throughout the past 40 years? We can supply bulls from the original Pontiac herd. Sires in service are from dams with better than 1.100 lbs. butter and 25.000 lbs. milk in 365 days.

Send for Pontiac Pedigrees.



Bureau of Animal Industry Dept. C Lansing, Michigan

FOR SALE REGISTERED HOLSTEIN FRIE-SIAN COWS from 2 to 7 years sold. Some fresh, others to freshen soon. Will sell old. Some fresh, others to freshen soon. Will sell one or more to suit purchaser. Best of breeding. Prices are right. HENRY S. ROHLFS, Akron, Mich.

Qualty Holsteins Young Bulls up to 8 months of age. Good Individuals and Well Bred, at from \$50 to \$75, according to age.

1. M. SHORMAN, Fowlerville, Mich.

HOLSTEIN or GUERNSEY dairy calves, 7 weeks old, spent. Edgewood Dairy Farms, Whitewater, Wis.

(Hereford Steers)

60 Wt. Around 850 lbs.; 66 Wt. Around 740 lbs. 80 Wt. Around 650 lbs.; 46 Wt. Around 525 lbs. 50 Wt. Around 950 lbs.; 58 Wt. Around 450 lbs. Also many other bunches. Deep reds, dehorned, good stocker condition. Real quality Herefords are usually market toppers when finished. Will sell your choice from any bunch. VAN B. BALDWIN, Eidon, Wapello Co., lowa.

Registered Herefords Bulls, cows and heif-calhoon, Branch Co., Bronson, Mich

MICHIGAN JERSEY CATTLE CLUB

Pure-bred or grade cattle for sale. Can quote prices on individuals or carloads. B. of M. and Cow Test-ing Association records. H. E. DENNISON, Field Man, East Lansing, Mich

Financial King Jerseys Our bulls of service able age are all sold, but we have a few bull caives of excellent breeding, sired by our great herd sire, Financial King Sensation. Our prices are reasonable. COLDWATER JERSEY FARM, Coldwater, Mich.

Jerseys For Sale

Bulls ready for service, also a few females. All from R. of M. dams. Accredited herd. Smith & Parker, R. D. No. 4, Howell, Mich.

15 Cows, 4 bulls from R. of M. Cows. Chance to select from herd of 70. Some fresh, others bred for fall freshening. Colon C. Lillie, Coopersville, Mich.

Shorthorn Bulls For Sale, One 14 months old Roan, good ones, and priced to sell. C. V. Tracy, Union

THE FARM ANIMALS.

I T is no longer a question as to whether it is economical farming or not to harvest the crops by use of live stock. By pasturing forage crops and feeding down grain crops, the expense of hiring help to harvest them is done away with. This practice not only enables the farmer to care for his animals cheaper, but it also affords him an opportunity of distributing the labor more economically throughout the year. This is due to the fact that at the time when the crop is ready to be harvested there is usually more work than the farmer is able to do. By turning the proper animals in on the crop to be harvested, the farmer also saves himself the trouble of caring for the manure and hauling it to the field as the animals scatter it without loss.

Experiments have been run to see if it is economical to harvest the crop with the farm animals from the field. There are no unsatisfactory results and it has not only been proven that farm animals harvest the crops cheaply, but that while doing so make profitable gain and do much to maintain the fertility of the soil.

There are many instances where farmers might successfully use live stock in harvesting the crops. In the case where the rye, wheat or oat crops have done poorly it would be profitable to turn the pigs into the field. Often the corn crop is not worth husking or the soy-beans are only fair. In this case part of the field might be fenced off and successfully harvested by hogs or sheep, and to some extent by cattle.

Hay and grain must be obtained from the farm for roughage for the live stock that can not be left on pasture. However, there is no reason that on many farms the practice of hogging off certain crops and pasturing other crops should not be followed.

By watching the corners and using the live stock as harvest hands sufficient numbers of animals may be kept to furnish profitable work during the winter when other work is slack, and when the live stock require most care and attention. This system of farming affords the opportunity for remunerative labor throughout the year and more profits with less expense and attention to the farm producers.-Harry I. Holt. ALCONCOLOGICO DE CONTROLOGICO DE LA COLORIZA COLORIZA DE CONTROLOGICO DE C

eterinary.

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. Initialonly are published. When a reply by mail is requested the service becomes private practice and \$1 must be enclosed.

Thoroughpin.—I have a horse that has thoroughpin affecting both hind legs; the bunches are not large, do not seem to cause pain or lameness. C. S., Reese, Mich.—Apply equal parts of tincture of iodine and spirits of camphor to bunches daily. It is always difficult to reduce such bunches and when the animal is not lame, leave him alone.

-I have a mare that has worms.—I have a mare that has been troubled with worms for the past twelve months, have noticed her pass some pinworms. W. C., Dryden, Mich. Fast horse for thirty hours, give four fluid drams of oil of chenopodium in capsule, followed immediately by giving one quart of raw linseed oil. Flush the return using one protection to

Shorthorn Bulls For Sale. One 14 months old Roan, good ones, and priced to sell. C. V. Tracy, Union Phone, Ithaca, Mich.

Shorthorns Best of quality and breeding. Bulls, cows and heifers for sale. BIDWELL STOCK FARM, Box D, Tecumseh, Mich.

Milking Shorthorn Bulls Reds and Roans, WASTA HUBER, Gladwin, Michigan.

Registered RED POLLED CATTLE FOR SALE. Some young bulls. Cheap If taken soon. From heavy milking cows. JOHN DEYARMOND, Mio, Oscoda Co., Mich., R. I, Box 12.

SHORTHORNS OF MERIT Rodney's Model in service. Bulls for sale. W. E. MORRISH, R. 5, Flint, Mich.

Polled Shorthorn Bulls George GILL & SON, Ypsilanti, Mich.

To sale. Well bred, For sale, Well bred, FOET & SON, R. 6, Clare, Mich.

The Tested. FRANK POET & SON, R. 6, Clare, Mich.

Shorthorns Bulls for sale. Well bred, For sale, Well bred, Foet & SON, R. 6, Clare, Mich.

Shorthorns Bulls for sale. Well bred, Foet & SON, R. 6, Clare, Mich.

Shorthorns Bulls for sale. Well bred, Frank Poet & SON, R. 6, Clare, Mich.

Shorthorns Best of quality and breeding. Bulls, Cover and their for sale. With the rectum, using one part coal tar disinfectant in thirty parts of tepid water. If this mare is with foal, don't give her above treatment.

Subscriber, Bad Axe, Mich.—Mare sixteen years old has bleeding tumor situated under her tail connected with the bowel. Local veterinary says she is incurable. Your mare suffers from melanosis, an ailment peculiar to white however, your veterinarian should know what is best.

False Teats.—I have a young cow with two small teats, one connected with each back teat, and they leak milk while I am milking cow. R. S., Port Huron, Mich.—When dry, have the small teats removed and apply caustic to milk sack.



200 REGISTERED HOLSTEINS

The Western Wisconsin Holstein Breeders' Sales Association's

First Annual Spring Consignment Sale West Salem, Wis. - - - - - - April 8-9

was generally conceded by those who attended this Association's fall sale that they had assembled the finest array of Holstein cattle ever offered at public auction. The Association claims to have even a finer string for this sale than they had last fall. Only those who attended last fall's sale can appreciate how good the cattle must be to be worthy of this claim.

Watch for following announcements. Write O. G. Clark, Sale Manager, or A. L. Hyzer, Assistant Sale Manager, West Salem, Wis., for further information.

HOGS

DUROC SOWS

Good yearling sows bred to Michigan's Grand Champion Boar, at \$65. Growthy gilts of approved type, sired by above boar and bred to a Super Colonel boar, at \$50 to \$70. These are registered and guaranteed to please. Lakefield Farm, Clarkston, Mich.

Registered O. I. C. Sows some due to farrow later.

Gilts, yearlings and 2-year-old. Also boars of all ages. All stock on approval. Register free.

W. KENNEDY, R. 2, Plymouth, Mich.

O.I.C. 6 fine fall boars and 1 choice STOCK FARM, Monroe, Mich. CLOVER LEAF B. FURNISS, Nashville, Mich. for sale, extra good young Delaines, V.

Big Type Chester Whites Yearling herd boars C. O. D. LUCIAN HILL, Tekonsha, Mich.

Francisco Farm Poland Chinas

There are still a few of those good, big, bred gilts left. The first \$50 checks get them. P. P. POPE, Mt. Pleasant, Mich.

Big Type Poland Chinas
Choice gilts bred for Mar. & April farrow, for sale.
WESLEY HILE, Ionia, Mich.

Poland China Fall Gilts Write for prices. E. A. Clark, St. Louis, Mich.

Fall Pigs either sex, by the great Boar. The Wolverine. Priced reasonable. Best of dams. W. E. Livingston, Parma, Mich.

Big Type POLAND CHINA FALL GILTS.
Rainbow - Clansman breeding.
W. Needham, Saline, Mich.

Large Type Poland Chinas Fall plgs of either sex for sale. A. A.

Hampshires For Sale nice spring and fall Boars. Choice bred gilts, 12th year. JOHN W. SNYDER, R. 4, St. Johns, Mich.

SHEEP

HORSES

FOR SALE One Registered Per-operation of the Medical Per-operation of the

For Sale 1 Percheron Stallion, 3 years old. of The Ton Type, E. R. van Mich.

Strawberry Roan Belgian Stallion old. Weight 1,800 lbs. HERMAN KOHLER, R. 2, Clinton, Mich.

RY a Michigan Farmer Classified Liner—They cost little and bring big results. See rates on page 451.



GRAIN QUOTATIONS

Tuesday, March 24.
Wheat.
Detroit.—No. 1 red \$1.79; No. 2 red
1.78; No. 2 white \$1.78; No. 2 mixed

Chicago.—May \$1.65½@1.65¾; July \$1.45½@1.46¼; September \$1.31½@

\$1.45½@1.46½; September \$1.5172@1.34¾.
Toledo.—Wheat \$1.76@1.77.
Corn.
Detroit.—No. 3 yellow \$1.15; No. 4
yellow \$1.10; No. 5 yellow \$1.08.
Chicago.—May at \$1.10@1.11½; July
\$1.13%@1.14%; September \$1.13%@
1.14.

Oats.
Detroit.—No. 2 white at 52c; No. 3

Detroit.—No. 2 white at 52c; No. 3 white 51c.
Chicago.—May at 44½@44%; July 46%c; September 46%c.

Rye.
Detroit.—No. 2, \$1.18.
Chicago.—May \$1.25¾@1.26½; July \$1.15¼; September \$1.04½@1.04¾.
Toledo.—\$1.18½.

Beans.

Detroit.—Immediate and prompt betroit.—Immediate and prompt shipment \$5.70@5.75 per cwt.
Chicago.—Navy, choice \$6.25; red kidneys \$10.
New York.—Choice pea at \$7@7.15; red kidneys \$10.25@10.50.

Detroit.—Malting \$1; feeding 93c.

Buckwheat.

Detroit.—\$2@2.05.

Detroit.—\$2@2.05.

Seeds.

Detroit.—Prime red clover cash at \$17; alsike \$13.90; timothy \$2.80.

Hay.

Detroit.—No. 1 timothy \$16@16.50; standard and light mixed \$15.50@16;

No. 2 timothy at \$14@15; No. 1 clover and No. 1 clover mixed \$13@14; wheat and oat straw \$10.50@11; rye straw \$11.50@12. straw \$11.50@12.

Feeds.

Detroit.—Bran at \$32@33; standard middlings at \$33; fine middlings \$37; cracked corn \$56; coarse cornmeal at \$44; chop \$36.

Apples.

Chicago prices on apples: Northern Spies at \$7@8 bbl; Baldwins at \$7@ \$7.50; Jonathans \$9.50 bbl; Kings at \$7.50@8; Greenings \$7.50@8; Wageners \$5.25@5.50 bbl; Grimes at \$5.50@ 5.75; Starks \$6.50@7; Ben Davis at \$5.50@6 \$5.50@6.

WHEAT

After a week of the most erratic behavior from day to day in trade history, with the main trend drastically downward, the wheat market has turned strong and signs are appearing that

a stable bottom has been reached.
From whatever level the market finally turns on this decline, it seems probable that the trend during the rest of the crop year will be upward. The shortage of total supplies in this country and the close adjustment between snortage of total supplies in this country and the close adjustment between the needs of importing countries and exportable surpluses available, would seem to justify a higher price. The prospects for the new crop, both at home and abroad, are not yet favorable enough to explain such a drastic revision in prices as hes been made. revision in prices as has been made in a little more than two weeks.

RYE

On the low point of the break during the last week, rye prices were 40 per cent lower than at the high point of the season in January. In this grain, also, the decline would seem to have put the market in healthy position for an advance during the spring months. Large sales for expert are months. Large sales for export are being reported once more and there are reliable indications that clearances will increase quite soon. A large part of the stock of rye held at the seaboard is said to have been sold already. It will take continued buying of this sort, of course, to carry the market materially higher.

CORN

Corn prices held better than any other grain during the market crash of last week. Moreover, cash corn was relatively stronger than the future deliveries which were dominated by speculative influences. Primary receipts have fallen off sharply and the by speculative influences. Primary receipts have fallen off sharply and the cash demand has improved. Prices are too high for export business as Argentina is still in position to supply most of the European requirements. Danubian countries are exporting some corn and the new crop in Argentina will be ready for harvest in another month. other month.

OATS

OATS
Feeders 6.00@ 7.25 Receipts 400.
Oats prices are sharply lower than Stockers 5.25@ 7.00 at \$11.50 down.

a week ago although they are showing a strong tendency to rally. Stocks in sight are tremendous but the price is so low that but little further decline is to be expected, even though the break in wheat has not yet culminated. Seeding the new crop of oats is proceeding rapidly as far north as Kansas. Conditions for the new crop are mostly favorable.

SEEDS

The heavy spring seed trade has not opened up generally, but the demand is expected to broaden materially after any prolonged mild weather. Retail prices of all kinds of field seeds other than sweet clover, timothy and sudan grass are higher than a year ago, which may curtail sales for some seeds. Dealers seem anxious for sales and some price concessions have been made. made.

FEEDS

The demand for feeds has not improved and prices are unchanged. However, mills are reducing their output, prices are low in comparison with the feed grains, and some improvement in prices usually comes in March and April so that the market probably is at the bottom for a while.

HAY

Good hay is firm at unchanged prices, but the large quantity of low grade hay on the market cannot be moved even at substantial discounts. With stocks of hay remaining on farms greater than last year, producers will continue pressing their holdings on the market and prices may not see any material improvement for some time.

POULTRY AND EGGS

Egg prices have steadily advanced during the past fortnight with a tendency toward narrowing the range of values. The usual spring decline was values. The usual spring decline was checked earlier and at a higher level than a year ago by the very early buying for storage. Accumulations at the four leading markets since March 1 have been nearly twice as large as in the same period a year ago. The increase has been more than equaled by the increase in receipts, however, so that consumption is being maintained on a larger scale than last year. Indications are that the spring egg lay will exceed that of 1924, and higher

prices may induce producers to market a larger proportion of the output than they did last spring.

Chicago.—Eggs, miscellaneous 28½ @29c; dirties 28c; checks 27½c; fresh firsts 29¾c; ordinary firsts 28@28½c. Live poultry, hens 27c; springers 30c; roosters 18c; ducks 28c; geese 16c; turkeys 28c.

Detroit.—Eggs, fresh candled and graded 30@30½c. Live poultry, heavy springers 30@31c; light springers 25@26c; heavy hens 28@29c; light hens 24@25c; roosters 18c; geese 16@18c; ducks 32@33c; turkeys 35c.

BUTTER

BUTTER

Butter prices have eased off only slightly from the high point of the recent advance and the undertone of the market is still firm. Receipts have increased but are still comparatively light. Storage stocks are being rapidly reduced and if the March movement is as heavy as during February, which does not seem improbable providing production and consumption continue near present proportions, the holdings on April 1 will be close to the five-year average. Consumptive demand so far has shown no apparent curtailment because of the higher prices, but butter has been cheap so long that it is to be expected that the advance will affect purchases to some extent.

Prices on 92-score creamery were:

Prices on 92-score creamery were: Chicago 48½c; New York 47¾c. In Detroit fresh creamery in tubs sells for 45@48c per pound.

BEANS

The bean market is dull with only small volume of trade. C. H. P. Whites are quoted at \$5.80@5.85 per 100 lbs. f. o. b. Michigan shipping points The wholesale grocers are buying sparingly and some of the beans purchased by California speculators several months ago are believed to be for sale on a moderate advance. Opinions remain far apart as to future values, with elevators asking \$6.25 and buyers offering \$5.75 for April shipments.

POTATOES

Potato prices were slightly lower last week in spite of the falling off in carlot shipments. The movement of old potatoes during the week was 12 per cent less than during the cor-

Milkers\$45.00@80.00

Veal Calves.

Receipts 553. Market 50c lower. Best\$13.50@14.00 Others5.00@13.00

Sheep and Lambs Receipts 354. Market steady.

responding week last season. responding week last season. Most of the decrease was from Minnesota, North Dakota and Colorado. Shipments of new potatoes continue in excess of a year ago. The area planted and intended to be planted in 15 early potato states is estimated at approximately 242,000 acres, which is eight per cent less than last year. Northern round whites, U. S. No. I, are quoted at \$1@1.05 per 100 pounds in the Chicago carlot market. Most

APPLES

Shipments of apples are considerably under the corresponding time a year ago and prices are firm. The movement of apples from storage has been larger than during the same time a year ago. Holdings on March 1 were 37 per cent less than on March 1, 1924. Illinois extra fancy 2½-inch Willow Twigs are quoted at \$8.50@3 at Chicago, while eastern A-2½-inch Baldwins cost \$6.75@7.25.

GRAND RAPIDS

Maple syrup and sugar of excellent quality and color was offered in Grand Rapids this week in liberal quantities. The syrup sold in a range of \$2.25@ 2.50 per gallon and the sugar around \$2.50 per gallon and the sugar around the system of t The syrup sold in a range of \$2.25@ 2.50 per gallon and the sugar around 35c a pound in small cakes. Fresh eggs were in more liberal supply and steady in price at 28@30c a dozen. Poultry was scarce, with fat fowls firm at 25@27c a pound. Pork has advanced to 16@17c a pound and beef has moved up in sympathy, topping around 15c. Veal was in liberal supply at around 14@15c. Apples are not moving as briskly as in former years, perhaps due to the low prices asked for citrus fruits. A-grade Spysare selling in a range of \$2@2.50 per bushel, while other varieties range from \$1.50@2 a bushel. Vegetables were barely steady. Potatoes were easy at 45@55c a bushel; carrots at 75c a bushel; turnips at 75c@\$1 a bushel; rutabagas 60@75c a bushel; parsnips \$1@1.25 a bushel. Cabbage was in liberal supply at 60@75c bushel. Beans have declined to \$5.40 per cwt., and wheat has rebounded to \$1.5\$ a bushel. a bushel.

DETROIT CITY MARKET

Warmer weather brought a large supply of product to market. The volume of buying was fairly large, but not heavy enough to clean up the offerings. Good apples had a ready sale. Potatoes were in liberal supply, but the movement was light. The demand for fancy root parsley and carrots was a little stronger, but most vegetables continued draggy. Live poultry was in demand. The demand for the liberal supply of eggs was firm. Veal offerings were light and sold quickly. supply of eggs was firm. Vealings were light and sold quickly.

ings were light and sold quickly.

Apples \$1.25@4 bu; beets, round, 65@75c bu; cabbage 65@75c bu; carrots 65@75c bu; horseradish \$2.50@5 bu; leeks 50@75c dozen bunches; dryonions, No. 1, \$1.25@1.50 bu; parsnips \$1@1.50 bu; potatoes, No. 1, 65@75c bu; rutabagas 60@75c bu; squash 90c @1 each; roots celery 75c@\$1.25 bu; honey \$1.15@1.25 per 5-lb. pail; butter 50@60c; eggs, wholesale 31@33c; retail 35@40c; hens, wholesale 28@32c; retail 35@40c; hens, wholesale 28@32c; retail 33@35c; Leghorn hens, retail, 30c; springers, retail 33@35c; veal 18@19c; dressed poultry, hens 35@38c; springers 35@38c. springers 35@38c.

WOOL

Belief is spreading that wool prices are close to a stable level. The volume of wool changing hands has increased, and, even though prices are still easy, confidence is more general than at any time in several weeks. The goods market has improved slightly. The sale at London is still in progress, with buyers taking the offerings at the decline in prices as established on the opening day. One-half blood combing and fine delaine fleeces on the Ohio and Pennsylvania flate and the delaine fleeces on the Ohio and Pennsylvania order are quoted at around 62c in Boston, compared with 70c and above on the high point in December.

World wool production during 1924, as estimated by the United States Department of Commerce, was 2,837,000,000 pounds. This was an increase of 117,000,000 pounds over 1923, but it falls 397,000,000 pounds short of the five-year average from 1909 to 1913.

COMING LIVE STOCK SALES.

Holsteins.

arch 31—H. C. Ruggles, Moorepark, Receipts 572. Market steady. March 31-Mich.

Live Stock Market Service

Tuesday, March 24.

CHICAGO

Hogs.

Receipts 20,000. Market generally steady to 10c lower than Monday's close; 150 to 175-lb. average mostly \$13.25@13.65; bulk 180 to 210-lb. average \$13.70@13.75; strong weight pigs \$12.50@12.75; bulk of packing sows \$13.013.50 \$13@13.50.

Receipts 10,000. Active change, especially on heavies. Yearlings and handyweights in demand; trading is steady on fat steers and yearlings; light yearlings \$11.50; heavies \$11.35; some handyweights held at \$11.75; all others steady; bulk vealers \$9@10 to packers, outsiders \$10.75@11.50.

Sheep and Lambs.

Receipts 12,000. Market dull; late run on fat lambs; good weight to packers; sheep 25c lower; most early packers weak; outsiders strong; best earlies at \$16.75; bulk fat ewes uneven; choice shorn ewes \$15.

DETROIT

Cattle.		
Receipts 412. Market st	eady.	
Good to choice yearlings		
dry-fed\$	9.50@	10.50
Best heavy steers, dry-fed	8.75@	9.50
Handyweight butchers	7.75@	9.00
Mixed steers and heifers	6.50@	7.75
Handy light butchers	6.00@	6.75
Light butchers	5.00@	
Best cows	5.50@	7.00
Butcher cows	4.25@	5.25
Cutters	3.00@	3.50
Canners	2.25@	3.00
Choice bulls	5.00@	
Heavy bologna bulls	4.50@	5.25
Stock bulls	4.00@	5.00
Feeders	6.00@	7.25

 Receipts 354. Market steady.
 16.50

 Best lambs
 16.00@16.00

 Fair to good sheep
 15.00@12.00

 Light to common
 10.00@12.00

 Yearlings
 13.00@13.50

 Fair to good sheep
 8.00@9.50

 Culls and common
 4.00@6.00

 Buck lambs
 7.00@16.00

 Hogs. Receipts 1,633. Market weak to 25c lower. Mixed hogs, heavy y'rkrs.\$ 12.75 13.90 13.25 Little yorkers Yorkers

BUFFALO

Hogs.

Receipts 4,560. Hogs closing slow. Heavy sold at \$14.15@14.25; medium \$14.35; light \$14.25@14.50; light lights \$13.25@14; pigs \$13@13.50; packing sows and roughs \$12.50.

Cattle.

Receipts 2,500. The market is steady. Steers from 1,100 pounds up at \$8.50@11.25; steers \$1,100 lbs. down \$6@10.50; load of yearlings up to \$10.50; heifers \$5.50@9; cows at \$2.50@7; bulls \$4.50@6.25.

Sheep and Lambs.

Receipts 7,100. Tops selling at \$17; culls \$15.50 down; yearlings \$13.50@
14; aged wethers \$11.50; ewes \$9@10.

Calves.

Tops at \$14; culls

lost

ota,

ted

oxight

rth-

ler-

has

nch

ent

ind

nd

en. vis ad-

up-

THE CAPPER-HAUGEN BILL.

T is the intention of the President's agricultural conference to hold another session before congress convenes, at which, it is indicated, a cooperative marketing plan will be developed which will more nearly meet
the approval of the farmers. It is felt
by members of the farm bloc who favored the Capper-Haugen cooperative marketing board bill, that the farmers in general did not fully understand the proposed plan and that much misleading propaganda was sent out for the sole purpose of stirring up opposition to the bill. With a better understandored the Capper-Haugen cooperative to the bill. With a better understanding of the proposal it is believed that low the farmers who compose the membership of cooperatives will favor a measure following closely the general lines of the Capper-Haugen bill.

BEAN GROWERS MEET.

A PRELIMINARY meeting of leading bean growers from various sections of the bean producing area of the state met at Flint last week to give further consideration to the matter of studying the grading and inspection of beans, and making a survey of the industry from the producers' standpoint to learn if possible the attitude of Michigan growers toward federal grading and inspection.

The bean growers present at this meeting were bona fide. The average production for those gathered was around 1,000 bushels. Plans for reaching the farmers in the principal beangrowing counties were perfected.

growing counties were perfected. These contemplate the organization of county groups who will in turn organize a state association.

It is interesting to note that the demand from Michigan farmers for certified potato seed has increased twentyfold since 1921. However, it is regretable to further note that seventy-five per cent of the certified seed grown in the state is sold to farmers in other states. Last year's crop of seed is now moving to other states very rap-

COUNTY CROP REPORTS.

Allegan Co., March 14.—No sugar beets. Potatoes, beans and corn acreage about the same as last year. More seed corn here than will be used. Building and repairing at a standstill. Hogs 12c; veal calves 11@12c;—R. W.

Hogs 12c; veal calves 11@12c;—R. W. Huron Co., March 13.—Normal acreage of sugar beets, potatoes and beans are likely to be planted. Condition of seed corn fair. Not much building or repairing. Trees are not sprayed as a rule. Little marketing at present. General outlook is good for general farming in Huron county. Auction sales well attended and price good.—A. W. C. Shiawassee Co., March 12.—Sugar beets, potatoes, beans and corn will be about the same acreage as last season according to what advice can be

son according to what advice can be gathered at this time. Seed corn is scarce. No general amount of fruit tree spraying going on. Marketing conditions rather light owing to rough roads. Building and repairing will be fairly active as soon as weather conditions will permit. Outlook for local farming fairly good.

age of crops is being planned. Help is scarce.—L. A. C.

Benzie Co., March 14—Owing to the low price received for potatoes the past two years, the acreage will be limited this year. Beans appear to be more in favor. The usual amount of corn will be planted, and there is plenty of seed here. Some building repairing is going forward. Fruit trees are well budded. Our growers here spray well. Nothing is being marketed at this time.—W. A. M.

Bay Co., March 14—In this particular locality only a small acreage of potatoes and sugar beets are planted. Beans this year will be a large crop, while corn will probably run 50 per cent of normal. Seed corn is scarce. Building and repairing are being planned on a small scale. Wheat brings \$1.70; oats 48c; rye \$1.23; barley \$1.80 per cwt.: buckwheat \$2 per cwt.; beans \$5.50 per cwt. The outlook for farming is improving. Farmers are watching the controversy over federal grading of beans with much interest.

Dressed Veal and Hogs

We are an exclusive meat house and are equipped to handle to your advantage veal and hog shipments.

Guaranteeing best results and prompt returns. Ship direct to

M. A. Nicholson & Co. WHOLESALE MEATS

2460 Riopelle, Detroit, Michigan

For Best Results Ship Direct to DETROIT BEEF CO., Detroit, Mich.

DRESSED CALVES DRESSED HOGS SUCKLING PIGS LIVE POULTRY DRESSED POULTRY Write for Free Shippers' Guide

'Friend" Crop Sprayers

Write at once for Catalog T 25, showing the latest and best equipment in both traction and power outfits for all potato, field and vegetable spraying. Nozzle booms for all classes of work. Name this paper. P "Friend" Mfg. Co., Gasport, N. Y.



"Friend" Mfg. Co., Gasport, N. Y.

MILK TICKETS—IN SHEETS and SINGLE

-Other Printing too—Send for Catalog.

Campbell Printing Co. Lansing, 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 misrellaneous 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.

0	Yhann		
One	Four	One	Four
10\$0.80	\$2.40	26\$2.08	\$6.24
11	2.64	27 2.16	6.48
12	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	
18 1.44	4.32		7.92
	4.56	34 2.72	8.16
19 1.52		35 2.80	8.40
20 1 .60	4.80	36 2.88	8.64
21 1 .68	5.04	37 2.9 6	8.88
22 1.7 6	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
	MY .	 All advertising 	C097

Special Notice

anded for the Classified Department must reach this office ten days in advance of publication date.

REAL ESTATE

FOR SALE—437 acres of unimproved land in Cheboygan County, Michigan, suitable for pasture land with a small stream running through it. D. & M. Railway runs through one corner of said land and about 6 miles from the Village of Alohos. R. L. Hubbard & Company, Caseville, Michigan.

FOR SALE—220-acre farm in Jackson Co. on state road. 100 acres heavy loam soil. 40 acres heavy oak timber, remainder mowing marsh and pasture, Adtimber, remainder mowing marsh and pasture, dress Box 88, Michigan Farmer.

FOR SALE—80 Acres, black loam soil, with buildings, stock and tools. Owner, Emory Borosh, Boon, Wexford Co., Mich.

80-ACRE FARM for sale by owner. Mostly gravel and black sand, Young orchard, 1000 trees, situated 30 miles north of Detroit, on State Road. Stock and tools if desired. Thomas Nunneley, New Haven, tools if desired. Mich., Macomb Co.

FARMS NEAR DETROIT—Milan and Ypsilanti, Write for list, stating kind wanted. E. W. Bordine, R. 5, Milan, Michigan.

20-ACRE FRUIT and poultry farm, adjoining town, only \$500 needed. DeCoudres, Bloomingdale, Mich,

MISCELLANEOUS

FOR SALE—B. L. K. Milking Machine in A-1 condi-tion. Piping for 30 cows. Will Pagel, Farmington, Mich.

UP-TO-DATE meat market for sale, doing good business, reason for selling is on account of health. Antonio Genco, Box 352, Mason, Mich.

FOR YOUR SAVINGS-6% to 6½% on safe tax exempt City Bonds. Write for information. Ringheim & Co., Des Moines, Iowa.

BEAUTIFUL FAMILY RECORD—Birds in flight. Remember dear ones at home and in heaven. Postpaid 50 cents. H. N. Burrows, Box 276, East Tawas, Mich.

CEDAR POSTS in carlots, direct from producer. Write for prices. E. Doty, Atlanta, Mich. GLADIOLUS BULBS—Write for descriptive price list. George Hunter, Dowagiac, Mich.

BEES FREE—Trap Stray Swarms. Interesting liter-ature free. Ed. Swenson. Spring Valley, Minn.

WANTED—Standing timber of all kinds. Good prices. Charles L. Bertch, Pleasant Ridge, Detroit, Mich.

TOBACCO

HOMESPUN TOBACCO. Chewing 5 lbs., \$1.50; Ten \$2.50. Smoking, 5 lbs., \$1.25; Ten, \$2.00. Pay when received, pipe and recipe free. Farmers Union, Padu-cah, Ky.

HOMESPUN TOBACCO—Chewing, 5 lbs., \$1.50; 10 \$2.50. Smoking, 5, \$1.25; 10, \$2. Mild, 10, \$1.50. Pay when received. F. Gupton, Bardwell, Ky.

HOMESPUN TOBACCO—Chewing five pounds, \$1.50; ten, \$2.50, Smoking, five pounds, \$1.25; ten, \$2.00. Pipe free, Pay when received, Satisfaction guar-anteed, Kentucky Farmer's Association, Paducah, Ky.

SEEDS AND NURSERY STOCK

FROST PROOF Cabbage Plants and Tomato Plants. Varieties: Early Jersey and Charleston Wakefield. Copenhagen Market, Flat Dutch and Succession. Tomato: Greater Baltimore. Earliana and Livingston Globe, Prices. Parcel Post Paid, 500, \$1.50; 1.000, \$2.50. Express collect, \$1.25, 1.000. We ship the size of plant you wish. Satisfaction guaranteed. Tifton Potato Company, Inc., Tifton, Ga.

FROSTPROOF CABBAGE, Bermuda Onions and To-matoes, Strong, hardy plants, Leading varieties, Prompt shipment, Satisfaction guaranteed, 100, 40c; 500; \$1.25; 1.000, \$2.00; 5.000 \$8.50. Pepper, 100, 50c; 1.000, \$2.50. All postpaid. East Texas Plant Co., Ponta, Texas.

SEND US \$2.90 and we will send 300 Champion ever-bearing strawberry plants. 100 Cooper for \$2.00; 200 Premier for \$1.50. Plants sent C. O. D. for postage, Order Direct, Catalog free. South Michigan Nursery, New Buffalo, Michigan. Ref. No. 14.

DODGES FAMOUS Rio Grande Valley Bermuda On-ion plants will produce the best and Earliest Mature Bermuda Onions. Large open field grown plants, 500, \$1.25; 1,000, \$2. Prepaid. Satisfaction guaranteed. Dodge Plant Farms, Raymondville, Texas.

ALFALFA SEED—35 bushels of guaranteed hardy grown seed, all clean and about 99½% pure. Samp-les on request. Henry Foley, R. 5, Mt. Pleasant, Mich.

GUARANTEED—Progressive Everbearing Strawberry
Pearls. New Ground Plants \$1.00 Hundred, \$9
Thousand. Postpaid. State Inspected. William Fuchs,
Box 123, Allegan, Mich. BUY NURSERY STOCK DIRECT from grower. Save agent's commission. Send for catalog. Kankakee Nursery, Kankakee, Illinois.

CERTIFIED Wolverine Oats. Certified Robust Beans. Postal card brings particulars. A. B. Cook, Owosso, Mich.

ASPARAGUS—Why not plant the largest, tenderest, most profitable, "The Washington"? 100 roots \$1.25; 1000 \$8.00, Prepaid. Glick Seed Farm, Lancaster, Pa.

SWEET CLOVER SEED, both white and yellow. In-oculating Bacteria for bushel, any legume, 60c, post-paid. E. E. Basil, Latty, Ohio.

STRAWBERRIES, 125 choice plants \$1.25 postpaid. Free catalogue of Profitable Garden Luxuries. C. D. Thayer, Three Rivers, Michigan.

CERTIFIED MANCHU SOYBEANS—new seed, 96% germination, \$2.50 per bu. Charles Martin, Otterbein,

SEED CORN—Murdock Yellow Dent, 1923 crop, high germination. Three Dollars per bushel. Irving O. Leary. Coloma, Mich.

ASSORTED COLORS GLADIOLA bulbs; 55 large or 120 flowering size, \$1.00, postpaid. Martha Osmond, Fostoria, Mich.

CERTIFIED and registered Golden Glow seed cornextra early strain. Certified Irish Cobbler potatoes.
Kate L. Reinsch, Freesoil, Mich. FOR SALE—Registered and Certified Worthy coats. Write Paul C. Clement, Britton, Michigan

REGISTERED WOLVERINE OATS-Michigan's Best. C. D. Finkbeiner, Clinton, Mich.

CERTIFIED WORFHY OATS—Big Yield, stiff straw. Ernest Ruehs, Caledonia, Mich.

CERTIFIED Petoskey seed potatoes. J. B. Gray, R. 1, West Branch, Mich.

HAY

GET FULL market value for your hay. Ship to Albert Miller & Co., 192 No. Clark St., Chicago, III. Market reports furnished free.

PET STOCK

FOR SALE—Registered Collies, natural heelers. Silvercrest Kennels, Gladwin, Michigan. FOR SALE—Pedigreed Collie Puppies. Show's Collie Kennels, Traverse City, Mich.

POULTRY

HATCHING EGGS, White Rocks, Winners Egg Laying Contest, Michigan State Fair, 1924. \$3.00, \$5.00 per fifteen. 6. Buff Orpingtons, winners at Michigan's largest shows, \$3, \$5.00 per fifteen. Send for cir-cular. Walnut Hill Farm, Milford, Mich.

BARRED ROCK COCKERELS—Bred to increase next year's egg record. Culled three times for early ma-turity, body conformation, and temperament. Price \$5.00. Three outstanding individuals, \$8.00 and \$10. Earl A. Sindecuse, Albion, Mich.

WHITE LEGHORN EGGS for Hatching. From Farm Flock. Also Pen mated direct Ferris 265 to 300-egg Strain. Eggs \$12 and \$22 per 100. Riverview Farm, Vassar, Mich.

FAT HENS AND FRESH EGGS WANTED—Highest price paid for all kinds of poultry, especially for real tat hens. Ship at once, we need it for Easter. Coast Poultry Co., 700 Alfred St., Detroit, Mich.

EGGS—Single Comb Buff Leghorns and Buff Rocks. Pure-bred farm range, \$1.00 for \$15; \$6.00 for 100; prepaid. Mrs. H. H. Walter, Powhatan Point, Ohio.

ROSE COMB Brown Leghern pullets, 1 yr. old, also S. C. White Leghorn hens, 2 yr. old, \$1.35 each, R. B. Hutting, Carson City, Mich.

TURKEN—Half turkey, half chicken, large hardy layers, hatching eggs. Turken Home, Fayette, Iowa Box 853.

ROSE COMB Brown Leghorn eggs, \$1.50 per 15; \$8.00 per 100. Cockerels, \$2.00 each. Mrs. Claudia Betts, Hillsdate, Mich.

WHITE WYANDOTTES—Exclusively, eggs \$5.00 per 100 prepaid. Raymond Eash, Shipshewana, Indiana. S. C. REDS—heavy laying strain. Eggs 6c, postpaid. Chicks 15c. Myron Mason, Cloverdale, Mich.

S. C. WHITE LEGHORNS—Laying pullets, extra selected \$1.50. O. A. Braman, Palo, Mich.

SILVER LACED WYANDOTTES—Twenty choice cockerels. Circular free. C. W. Browning, Portland, Mich. BIG TYPE Toulouse geese eggs, 50c each. Buff Rock eggs, \$2 per 15. Baldwin & Nowlin, R. 4, Laingsburg, Mich. MAMMOTH Imperial White Pekin duck eggs, \$1.59 per 11. Chas. Stutz, Saranac, Mich.

FOR GUINEAS—One Dollar each, write M. B. Noble, Saline, Mich.

PURE-BRED Embden geese eggs, high producers. Glen Rykert, Williamston, Mich.

EGGS from Ringlet Barred Rocks \$5.00 per 100, \$2.00 per setting. Robert Martin, Woodland, Mich.

BABY CHICKS

CHICKS—Barred and White Rock; R. I. Reds, \$16 per 100; White Leghorns, \$12 per 100. delivered. 100% live delivery of good strong chicks guaranteed. chicks are Hatched in Wishbone Mammoth Incubators of 14,400-egg capacity. Terms: \$5.00 on each 100 chicks with order, balance one week before delivery is to be made, or at Hatchery where called for. Hatchery four miles east of Mt. Morris on Mt. Morris road one mile north and one mile east. 10 years hatching chicks. Reference, Bank of Mt. Morris, Order from this ad and save time. Meadow Brook Hatchery, R. 1, Mt. Morris, Mich. Phone.

"HLINOIS ACCREDITED" pure-bred chicks. State-inspected breeding stock. Barred Rocks, Single Comb. Reds., \$15-100. White Wyandottes, Buff Orpingtons, White Rocks, \$16-100. Postpaid, 100% live delivery. Hatch every Monday, order from ad. Member International and Illinois Chick Association. Earlyille Hatchery, 30 Ottawa St., Earlyille, Illinois.

SUPERIOR QUALITY Barred Rock and Pure Hanson White Leghorn Chicks. Stock Blood Tested second season. Highest Barred Rock at Michigan and Missouri Contests. 1923-24. Contest winners 1921. Discount for early orders. Satisfaction guaranteed. Circular Free. Aseltine Poultry Farm, 1827 Belden, Grand Rapids, Mich.

BABY CHICKS—Silver L. and White Wyandottes, Barred Rocks, R. I. Reds, Anconas, White and Brown Leghorns from culled and strong laying strains. Sold from day-old to eight weeks old. Fifteenth year. Write Shepard Poultry Farm, Litchfield, Mich.

INCREASE YOUR PROFITS with chicks from these flocks. \$208.78 was market value of eggs laid in December by one of our flocks of 125 pullets. Quality chicks at low prices. Boocher's Hatchery, Burr Oak, Mich.

OAKLAND HILLS QUALITY CHICKS—Strong, vig-orous, true to breed, profitable. English Leghorns, Reds, Rocks, White Wyandottes, etc. Safe delivery guaranteed. Circular free. Oakland Hills Poultry Farm, Farmington, Mich.

BARRED ROCKS, CHICKS and Eggs. No better in America.
Official Laying Contest Records 207 to 293 Proven in Laying Contests and Show Rooms. Write for prices, take no chances. G. Caball, Hudsonville, Mich.

BABY CHICKS—Pedigree Sired Eng. W. Leg. Chix, delivered 100% alive at your door at our low prices of \$12.50 per 100; \$80 per 500; \$110 per 1000. Circular free. Model Poultry Farm, R. 4, Zeeland, Mich.

WHY NOT TRY KARSTEN'S and get the best in egg bred White Leghorns? 75% of last year's customers reordered this year. Prices low. Catalog free, Karsten's Farm, Box Y, Zeeland, Mich.

BABY CHICKS from flocks blood-tested for Bacillary
White Diarrhea. All flocks tested—second test on
Rocks and Reds. All popular varieties. Ask for
Catalogue. Pierce Hatchery, Jerome, Michigan.

QUALITY CHICKS from Quality Stock. Barred Rocks, White Wyandottes and S. C. White Leghorns from prize winning stock at reasonable prices. A VanderVen, 823 Fulton Ave., Grand Haven, Mich.

BIG, HUSKY CHICKS at Reduced Prices. Leghorns, Rocks, Reds, Anconas. Write at once. Circular free, Shady Lawn Farm & Hatchery, Box 5-M. Zeeland, Michigan.

SUPERIOR CHICKS—90 up. 12 varieties. Heavy layers. Delivery guaranteed. Postpaid. Bank refer-ences. Catalogue Free. Superior Hatchery, Box S56, Windsor, Mo.

BABY CHICKS—From selected heavy layers. White Leghorns \$13 and \$15; Barred Rocks and Reds \$16 Hundred. Circular Free. Martin's Poultry Farm. Box F. Westphalia, Mich.

BABY CHICKS—Barred Rocks, White Leghorns culled for laying, trapnested, blood tested for White Diarrhea. Farmrange Chick Hatchery, Charlotte, Michigan.

BABY CHICKS—Leghorns, Rocks, Reds, Wyandottes, Selected Stock 100% live guaranteed. Write for Price List, P. W. Stone Hatchery, Fenton, Mich.

CHICKS—English Strain White Leghorns, M. A. C. Barred Rocks and Black Minorcas. Circular. Hill-side Hatchery, R. 3, Holland, Mich.

BABY CHICKS AND EGGS—Superior Ringlet Barred Rocks, Rose Comb Rhode Island Reds, White Leghorns, Wyndham's Ideal Hatchery, Tiffin, Ohio. Circular.

CHICKS from Trapnested English White Leghorns. Heavy winter laying stock. Big profit-makers. Cir-cular free. Cherrywood Poultry Farm, Holland, Mich. CHICKS, Brown Leghorns \$12 per 100; also have White Leghorns, Rocks and Reds. Free booklet, Freeport Hatchery, Box 12, Freeport, Mich.

RICHARDSON'S ROCKY RIDGE pure Parks strain Barred Rock Baby Chicks, \$16 per 100. Hanover, Mich.

S. C. BUFF LEGHORN CHICKS—First hatch March 3. Circular. Willard Webster, Bath, Mich.

TURKEYS

TURKEY EGGS—Mammoth Bronze, Bourbon Red, Narragansett and White Holland. You should place your order early. Write Walter Bros., Powhatan Point, Ohio.

NOW BOOKING ORDERS for Bourbon Red turkey eggs for hatching. Arthur Gale, R. 3, Montague,

AGENTS WANTED

ADDITIONAL SALESMEN WANTED for unoccupied territories. Our proposition is an unusual opportunity for high grade men, offering greater earning power and steady work. Must have car. Full information on request. Minneapolis Woolen Mills Co., Inc., 612 First Ave. North, Minneapolis.

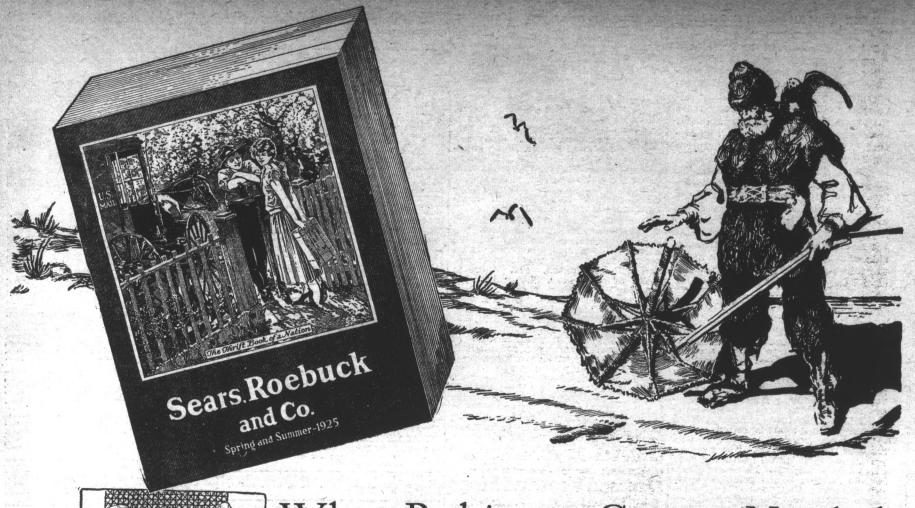
BIG MONEY Selling New Household Cleaning Set. Washes and dries windows. Sweeps, scrubs, mops. All complete only \$2.95. Over half profit. Write Harper Brush Works, 173 3rd St., Fairfield, Iowa. SALESMAN for lubricating oils and paints, full or part time. Liberal commission or salary. The Harvey Oil Co., Dept. D. Cleveland, Ohio.

WE PAY \$200 monthly salary, furnish car and expenses to introduce our guaranteed poultry and stock powders. Bigler Company X 683. Springfield, Ill.

HELP WANTED

WANTED—Reliable single man for certified dairy. Fast, clean, dry hand milker, 14 cows. Good hours, excellent living conditions. \$15.00 per week with board and room. W. R. Smith, R. 1, Ann Arbor,

WANTED—MARRIED MAN with farm implements, horses and cows, to rent fine farm near Toledo; convenient to concrete road and City markets. Jerome Probst, Ann Arbor, Michigan.



What Robinson Crusoe Needed

Robinson Crusoe, stranded on his desert island, could have had the world at his service if he had found a Sears-Roebuck catalog. For it would have brought him all the things he needed to make life worth while.

Today, nearly nine million families everywhere in the United States use our catalog whenever they want to buy at the lowest prices. If you are not now in this great family of thrifty buyers, we would like to send you "THE THRIFT BOOK OF A NATION" so that

you may see the endless opportuni-

The WORLD'S LARGEST STORE is yours to command. Our buyers go everywhere good merchandise can be bought at prices that will insure you the biggest savings; we maintain stores and warehouses throughout the country to give you the best and quickest service; 99 out of every 100 orders we receive are shipped in less than twenty-four hours. We sell only dependable goods, honestly described and illustrated.

Your copy of our New General Catalog for Spring and Summer is ready. Just fill in and mail the coupon!

Mail the coupon today

State

Street and No.

In less than a day—

Your order is on its way