

The Only Weekly Agrice tural, Horticultural, and Live Stock Journal in the State. VOL. CXXXIX. No. 18. Whole Number 3615. DETROIT, MICH., SATURDAY, NOV. 2, 1912. \$1.00 A YEAR \$2.75 5 YEARS.

RAL SCHOOL.

HE Aurand District Agricultural and Domestic Science Club, which was organized January 2, 1912, in reality began its work in the fall of 1910. At this time the district board purchased twelve silver maple trees for the improvement of the school grounds, when heart of winter the members began to been done. the trees arrived the boys 'assisted in make plans for their gardens. The fath-They dug the holes, setting them out. carried water, made frameworks for the of an acre of land for his own use, at young trees and mulched them. It could the same time expressing the opinion be seen at once that they were interested and the study of agriculture was accordingly taken up. At first there was one recitation period a week, this was on Monday morning from 9:00 until 10:00 Farm Nature Studies on the o'clock. was the text book used. It can be purchased for about forty cents. Many valuable suggestions were obtained from Farmer's Bulletin issued by the United States Department of Agriculture. The following ones were used: Boys and Girls' Agricultural Clubs, No. 385; School Lessons on Corn, No. 409; The School Garden, No. 218; The Potato as a Truck Crop, No. 407; Tree Planting on Rural School Grounds, No. 134, and Thirty Poisonous Plants, No. 86. Any of these bulletins may be obtained free by addressing the Secretary of Agriculture at Washington, D. C.

Practical work was at once taken up. The different kinds of soil, sand, clay and loam, were obtained and placed in jelly tumblers for future use. The boys of the manual training class built trays for testing corn and other seeds. These trays when finished were about one and one-half inches deep, 15 inches wide, and 23 inches long. The trays were then divided into small squares by a checkerboard lacing of twine across the top. Kernels of corn were supplied to each pupil and the different parts noted as and beans, cared for them himself and along this line are welcome at any period can see all parts of the farm from it. It endosperm, embryo, etc. Drawings were as a reward for his efforts won two first of the year and especially at this season is important that the house should not made and topics pertaining to the work assigned for language exercises.

flower make Two beds were set out, the grounds. bulbs for spring blossoming. The bulbs baked by the girls, and aprons, towels, farther away from another building than

cost about \$2.50, this amount being taken from premium money won by the school at The county fair. the beds were a great sucblossoming process, fusely and the children felt amply repaid for betheir efforts, Just fore Christmas it was decided to organize an agricultural club. During the holiday vacathe teacher had tion cards printed as follows:

This is to Certify that is a member of the Aurand District Agricultural Club and eligible compete for any to and all prizes offered by the club.

.....Teacher. On January 2, 1912, the club was organized and the cards given The members out. pledged to do the work outlined by the teacher.

The purpose of the club was to learn more common things about taught in the great book and hands. mously chosen by the class as a motto:

Work makes the man, Want of it, the chump,

The man who wins

Takes hold, hangs on, and humps. er of one of the boys gave him a quarter that, to his belief, it was one of the best school. This particular boy planted corn farm

AGRICULTURAL CLUBS IN THE RU- of nature, and to train the heart, head, sofa pillows, handkerchief bags, holders, is necessary, the feeder, in traversing The following was unani- etc., from the sewing classes.

value than the prizes won was the satis-

Calhoun Co. GUY F. THENEN.

PLANNING FARM BUILDINGS.

So much economy and convenience re-

this distance three times a day and re-Was it a success? Judge for yourself. turn will travel more than four miles a Thirteen first and two second prizes were year. Of course, at first this looks like won, amounting to \$18.75. But of greater a very short distance but when the distance is doubled it looks larger and many faction of the members of the club who times outbuildings are farther away than The cards seemed to give still more did the work, and of the parents under that and at this period of the develop-enthusiasm to the work, although in the whose direct supervision the work had ment of agriculture, the man who can do his work thoroughly with the least expenditure of energy and time is considered the most economical, It is important to have the arrange-

ment of buildings follow the factory plan as largely a. possible. That is, in the features ever introduced into the rural sults from the intelligent planning of factory the raw material goes in at one buildings that a few suggestions end and the finished product comes out at the other end. Trai.slated, it means that the buildings should be so arranged that when the farmer goes out to the barn in the morning, he can do his chores with the minimum amount of walking, and handling of materials.

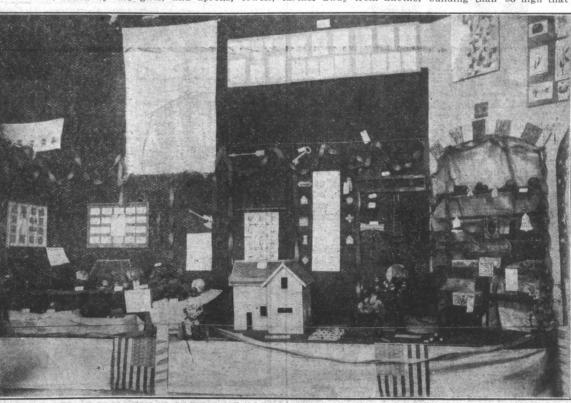
In general, the buildings should be placed on the poorest land on the farm and with proper regard to the wood lot, hills, and natural drainage. In many sections of the state where land is worth from \$100 to \$150 per acre, the saving of an acre of good land would be very important. On a great many farms, an acre could have been saved for cultivation had the farm buildings been arranged properly.

If it is possible, the house should be placed near the center of the farm with due reference to the water supply; but if this is impossible, the house should be placed on the side of the farm nearest the town, school, or church. On most farms there are a great many trips made to any one of the above mentioned places, and a shortening of the distance to them would mean a great saving of time in a year. The house should be at least 100 feet from the highway, and if possible, on a slight elevation so that one when most farmers are arranging for be too close to the highway for the dust mer, by travel, is considerable, and the so high that it is inaccessible with a load

or with heavy machinery such as the threshing machine and haybaler; and, on the other hand, it should not be in the valley, for there we find the early frosts, lack of air, and the injurious effects of spring rains, often filling the cellars with water.

The garden spot should be nearby. Many times the housekeeper has to make a trip or trips to the garden each day. When it is on the rear of the farm, as is often the case, it means that she must waste her time by needless walking, to say nothing of psysical injuries the which she may get from the carrying of heavy burdens.

Generally, the outbuildings, such as barns and sheds, should be placed at least 150 feet from the house and in the opposite direction from that in which the prevailing winds come. The reason for this is obvious and one can readily see that with



The Aurand District Exhibit at the Calhoun County Fair, Held at Marshall, Mich.



Aurand District Agricultural Club, Tekonsha Township, Calhoun County, Mich.

premiums on corn at the county fair.

The next fall (1911) it was decided to at the county fair at Marshall, Michigan, summer. beds upon the school There were melons, pumpkins, squashes, potatoes, corn, oats, fruits and vegeta- points to be considered in the building of anything but desirable when brought into care of one being given to the girls and bles, there were various articles of wood- farm houses and barns and a great deal the kitchen and on the clothes which have the other to the boys. In these beds work made by the boys, there were depends upon their arrangement. For been hung out to dry. The dwelling were set nearly 200 hyacinth and tulip cakes, cookies, bread and fried cakes example, if a shed is placed only 10 feet should be on an elevation but not on one

The first exhibit held by the club was buildings which they will construct next that is stirred up on a hot day in sum-There are a great many important germs contained in the road dust are

the barn placed in the proper direction ing value. which are found in some farmhouses.

The paddocks and barnyards for summer confinement should be placed on the opposite side of the barn from the house by the proper arrangement of these barnyards.

There are many other details to be buildings, but the suggestions given above should be likely to be found on the average farm.

Mich. Ag. Col. I. J. MATHEWS.

SELECTION AND CARE OF SEED CORN.

There seems to be quite a variety of ways of selecting corn for seed. Some of the ways employed by some farmers require too much time and unnecessary labor, at least it seems so to me. Such for instance, as selecting while husking, by saving a few husks on the ears, and then braiding them together to hang up. This method may do for selecting a small amount, or where the farmer does the husking himself. But it is impracticable where the husking is hired done.

Another method of selecting the seed from the wagon while unloading, takes too much time. I have always found it to be a quick and good way to select. seed corn, to take a basket or baskets, and pick out the corn as it lies on the ground in piles in the field, before being loaded in the wagon to be drawn to the crib. By this method it is easy to see what corn is suitable for seed. I always make it a point to select corn of a uniform color, with a goodly number of rows on each ear and well filled out at each end. By thus carefully selecting my seed each year, I have a corn that yields well and matures early. Although this has been a bad and backward season, my corn matured early enough so that I had it all cut up and in the shock before there was any frost. And at this date, October 21, have it nearly all husked and in the crib, and it is all hard and sound. Caring for the Seed. My method of caring for the seed, is to

place it over my gining-room where there is a large space unplastered. The corn quickly dried out in this room, and then is taken out and stored in another vacant room where it is kept dry and does not freeze. By thus selecting and caring for my seed, I never have any trouble in getting a good stand, as every kernel grows. JOHN JACKSON.

Ottawa Co.

LILLIE FARMSTEAD NOTES.

At last we have had a week of splendid weather, ideal weather for doing farm work, and we have made the most We got the third crop of alfalfa of it. hay all hauled, we harvested the lima beans, and got them to market, and have practically got the ensilage corn cut and in the silo. The ground was worked successfully, and the business are disagreeable to apply to the land. If went on as expeditiously as it ever did in the world. One who remembers last blow and stick to your hands and your fall when we had to cut the corn by face, and it will bite too. Otherwise, I hand and haul it through the mud across think it is the best form of lime to use. the field, certainly can appreciate the Of course, many are advocating at the weather that we are having at the pres- present time, ground limestone rock beent time. Of course, we are late, but fore it is burned. This is a perfectly leaves were nipped by the frost, yet the the humus in the soil, and it will procorn is in fair condition. It is just about duce the desired effect, but more slowly the right degree of maturity and will than the hydrated lime. make good corn silage.

ripened up wonderfully, yet there is some immediate effect, and only a small per soft corn and I have decided to fill the cent of it will give immediate effect, but beet top silo with corn this year and by applying larger applications at a time utilize the bect tops in the old way by one then doesn't have to lime his soil from the field every day. We are going smaller amount of hydrated lime, and in to husk all the ripe corn and then cut that way he will get just as good results. the balance and put it into the silo. In this way I think I can get much more out of the crop than in any other. We haven't as many beets this year any- over last year of 253,000,000 bushels of way, because we have only a medium erop and a much smaller acreage and 000,000 tons of hay," says R. S. Johnson, we can handle them, I think quite sat- of Chicago. "Add to this an enormous

I wish they had matured, and at the indicated distance, he would because I wanted to save seed from these avoid the noxious odors of the stables as I wanted to try them again and perhaps sell some seed, but they did not ripen enough for seed.

It is splendid weather at the present time for fall wheat. The very last sown and a great amount of land can be saved is up and growing nicely, the field which was put in earlier covers the ground, and if this weather continues we will have a splendid growth of fall wheat. It looks considered in the planning of individual now as if we might harvest our beets and get our potatoes harvested in good will apply equally to all those which time and get a nice bit of fall plowing If we can this season won't turn done. out as bad as it seemed it might. The clover seed is not yet all harvested. We had to stop to harvest the beans and ensilage corn, but with a few days more of good weather this job, too, will be COLON C. LILLIE. completed.

FARM NOTES.

Cementing a Cellar Bottom.

I intend to cement my cellar this fall. There is a solid clay bottom. Would you approve of putting in sand between the cement and bottom? If so, about what thickness would you recommend? Or, would you put the cement on bottom without sand between? What proportion of cement would you use? Please ancement would you use? wer through your paper. Lapeer Co. A. S.

In cementing a cellar bottom in clay soil there would seem to be no object in putting in sand between the cement and the clay bottom since, if the drainage is not good the sand would be saturated moisture and would not better the with condition. A comparatively rich coat of cement should be used, say one part of cement to three or four of sharp sand, according to the quality of the sand. This will make it more impervious to moisture than if a poor mixture were used. A coat of rich cement one inch thick will serve every purpose for a cellar bottom.

HYDRATED LIME.

I want to ask you what hydrated ag-ricultural lime is? Is it any different than ground limestone, and is it any bet-ter, and does a person need to use both on the same piece of ground? Kent Co. J. T.

As has been explained in the Michigan Farmer a good many times, hydrated lime is burned limestone that has been slaked with steam, a comparatively new process, but after the carbon dioxide and moisture is driven off by heat, then by allowing the lime to come in contact with steam it absorbs enough of the moisture to partially slake it, making what is known as hydrated lime. Now this is a good form in which to use lime for agricultural purposes. It doesn't deteriorate in value after it is placed in this form. It can be bagged and shipped and if you don't use it all one season you can keep it over until the next. On the other hand, if you use crushed ground lime-stone before it is partially slaked or hydrated this will gather moisture from the atmosphere and it will swell and burst the sacks, that is, the only disadvantage. enough so that the corn binder Both of these, however, are caustic and the wind blows this fine dust season is a month late. The corn safe product to use. It will not destroy You have to use more of it because it is impossible The crop that I intended to husk has to grind it fine as it ought to be to give them fresh and drawing them in as often as he would where he uses a COLON C. LILLIE.

"Fix definitely in your mind a surplus corn, 448,000,000 bushels of oats and 25,we can handle them, I think quite sat-isfactorily in the old way. Soy Beans, The soy beans didn't mature. I never saw any kind of plant so full of pods and filled any better than these bean plants, but they are not ripe. So we cut them with the mowing machine, raked them up at once and put them into the silo, mix-ing them in with the corn. That was the only way we cculd utilize them. In this way we got, I think, their full feed-



• You get the highest grade lumber for less than you must pay for low grade at your local dealers—and you will have a more durable house for less money.

Our positive guarantee goes with every shipment. Every piece of lumber we send you is guaranteed to be up to grade. not satisfied you can return it at our expense and we'll refund all your money promptly.

Your orders will receive prompt attention, whether great or small and you'll save money that will be worth while, no matter how small your order.

Reference—First National Bank, Bay City. Lumberman's State Bank, Bay City. Write us for estimates on what you want and ompare our prices with others. Address Pept. 12.

HINE LUMBER COMPANY. Bay City, Mich.

Wholesale 1-Ply, 35 lb. 108 sq. ft., \$1.10 per roll. **G** 2-Ply, 45 lb. 108 sq. ft., \$1.30 per roll. 3-Ply, 55 lb. 108 sq. ft., \$1.50 per roll. Warranted For 25 Years. Terms Cash. These Special Prices Only Hold Good for Immediate Shipment. FREIGHT PAID to any station east of Rocky Mountains except Tex., Okla., Colo., N.D., S.D., Wyo., Mont., N.M., La., Ga., Ala., Miss. and Fla. on orders of three rolls or more. Special prices to these States on request. INDESTRUCTIBLE BY HEAT, COLD, SUN OR RAIN. FIRST-CLASS IN EVERY RESPECT. NO SECONDS, REMNANTS OR MILL EN Write for FREE SAMPLES or order direct from this advertisement. Satisfaction guarant or money refunded. We refer you to the Southern Illinois National Bank. MILL ENDS. Century Manufacturing Co., Dopt. 795 East St. Louis, Illinois, Dopt. 795 132 N. Wabash Avenu

MODEL 1912 Hammerless Repeating Shotgun 20 GAUGE TAKE-DOWN

This new Winchester is the lightest, strongest and handsomest repeating shotgun on the market. It weighs only 5¼ pounds, yet it has great strength, because its metal parts throughout are made of nickel steel. In grace of outline, and perfection detail and finish, it is unapproached by repeating guns of other makes. It is a two-part Take Down, without loose parts, is simple to operate, and its action works with an ease and smoothness unknown in guns of othermakes. See one at your dealer's. Send postal to Winchester Repeating

Arms Co., New Haven, Conn. for circular A 20 Gauge Indeed

When writing to advertisers please mention the Michigan Farmer

of

Bigger Profits

for You In Hogs

All that Darlings's Digester Tankage

s done for others in increasing Hog

By mixing it into your hog feed—you can positively increase the weight of your hogs from 30 to 40 pounds and add to your profits accordingly.

Darling's

Digester Tankage

contains all the elements of scientific hog feed—is rich in protein, better than milk or oil meal, and, results con-sidered, actually costs less than any other feed obtainable.

If you want bigger profits in hogs-

This free booklet on Hog Feeding tells how to get them.

the source of th

ABSORBINE

Removes Bursal Enlargements,

Thickened, Swollen Tissues, Curbs, Filled Tendons, Sore-

ness from any Bruise or Strain;

liniment for

Allays Pain.

\$1

Cures Spavin Lameness, Allays Pain.

Does not Blister, remove the hair or lay up the horse. \$2.00 a bottle, de-livered. Book 1 K free.

ABSORBINE JR. the antiseptic

mankind. For Synovitis, Strains, Gouty

or Rheumatic Deposits, Swollen, Pain-

and \$2 per bottle at dealers or de-

W.F.YOUNG, P.D.F., 268 TempleSt., Springfield, Mass:

MINERAL

CURES

HEAVES

\$3 Package

will cure any case money refunded

\$1 Package

ordinary Postpaid on receipt of price.

Mineral Heave Remedy Co., 463 Fourth Ave., Pittsburg, Pa.

SCIENTIFIC POWER MILL

Agents Wanted

In HEAVE

Years REMEDY

Will tell you more if you write.

livered. Manufactured only by

ful Varicose Veins.

NEGLECT

Will Ruin

Your Horse

Send today for only

PERMANENT

CURE

Safe-Certain

DARLING & COMPANY

CHICAGO

43 01 Ashland Aver

HOG CENTS

Profits — it will do for you.

THE MICHIGAN FARMER.

THE VALUE OF "IMPORTED."

The use of imported animals in our flocks, herds and studs is an evident recognition of the British stockman's emi-'imported" seems to be surrounded in the average mind with a sort of mystic charm that may have, in a measure, obscured perverted to the extent of putting a premium on such stock merely because of advancement. An attitude so irrational districts of Scotland Ayrshires, and so tiny. If we have been so fettered to custom then it is clear that we should assert independence and resourcefulness. ourselves, and at once give due acknowl- have the men and I believe the stock-edgment to the intelligent and patient ef- the necessary combination for so imfort of our own stockmen.

tion, and with the same object in view, for a century or more. famous as breeders of Shropshire sheep have been breeding the same family on the same farm, continually, for over 60 years, and others have been working along similar lines for a much longer period. The sires, therefore, possess a remarkably high degree of prepotency that enables them to uniformly impress their offspring with the distinct and peculiar characteristics of their own breed. Moreover, during the process of improvement each breed has become naturally adapted to the climate, food and environment of certain sections of the country and thus acquired the ruggedness and vigor of constitution so essential to animals kept under the somewhat artificial conditions of domestication.

Here, then, are some of the advantages to be derived on this continent from the use of selected imported stock. From purity of blood we get the ability to transmit the desirable characteristics of the different breeds. From a long continued specialized development we find that typical representatives of these breeds will improve our stock in the particular specialty characteristic of each, whether it be mutton production in sheep, bacon production in swine, capacity for speed or power in the horse, or beef or milk production in cattle. Even though as individuals they appear to be no better than our home-bred animals, an interchange of blood may serve a use-

been developed by artificial means and are possibly more difficult to maintain than to acquire. Improvement through intelligent breeding and systematic se-lection has been made possible by the variation of the animal organism, under the control of man. Further, this varia-tion is directly influenced by changing conditions of climate, food and habit and the advance made can only be success-fully retained under like conditions and stock from one country to another there will be some change in environment, but if a judicious selection is made it need not be a marked one. It will be found, however, that no very great change is the construction of such flocks to pay however, that no very great change is the construction of the animal organism. Under the advance made can only be success-fully retained under like conditions and stock from one country to another there will be some change in environment, but if a judicious selection is made it need not be a marked one. It will be found, however, that no very great change is the construction of the analysis of the search of such flocks to pay however, that no very great change is the data marked one. It will be found, however, that no very great change is the the and the provention of the analysis of the search of such flocks to pay however, that no very great change is the the and the provention of such flocks to pay however, that no very great change is the the provention of such flocks to pay however, that no very great change is the the the provention of the provention of such flocks to pay the provention of such flocks to pay however, that no very great change is the the provention of such flocks to pay the provention of the provention o however, that no very great change is ingle prices. necessary to disturb the eequilibrium of There have been sharp recent advances the organism sufficient to cause more or in the Chicago market prices for dairy products, because of greatly lessened re-less of a modification in the form and ceipts of such goods as butter, cheese and further unward movements are tions in imported breeds; an instance, **THE LAKESIDE REMEDY CO.**, **5409 Calumet Ave.** Chicago, III Lambert and the Island type of Jersey.

It is the desire of every true breeder to improve his stock and the way in which he can accomplish this quickest and best is the method to pursue. At cne time imported animals were a necessity and we honor the enterprise of those who brought them here. But now, might we not make greater progress if we imported less and bred better? Many of our best breeders are building up fountnence as a breeder. Indeed, the term ain-heads of improved stock from which we can draw the blood that will best suit our purpose. And then we must specialize. It is much better to breed one class the standard of excellencee attained on of horses, cattle, sheep and swine in a this side of the "water." If it be true district than to have a dozen of each. that our judgment is in danger of being The live stock of Great Britain have become famous because this course is practiced. In Hereefordshire you will find the fact that it is imported, then we are little else but Herefords; in Shropshire in danger of retrogression rather than little else but Shropshires; in the dairy would stamp us as imitators when we on throughout the whole country. Hereshould be the fashioners of our own des- ford breeders in America have won an enviable reputation as the result of their We portant an undertaking. Can we not, A discussion of the pros and cons will, therefore, mould and fashion animal form however, adduce some very suggestive into a pure American product. This does facts. In the first place, the high qual- not mean that I favor the evolution of ity of British-bred stock is largely due new breeds; we probably have too many to continuity in breeding. It is not un- already. The point is this: Is it poscommon to find a farm on which a cer- sible by careful selection to so improve tain class of stock and a particular breed our existing breeds with little, if any, thereof has been bred without interrup- resorting to importations, that they will be a monument to the energy and intel-For instance, ligence of our own breeders, and a factor Messrs. Mansell, of Shrewsbury, Eng., in establishing the reputation of New World stock? Canada. J. HUGH MCKENNEY.

FEEDERS' PROBLEMS.

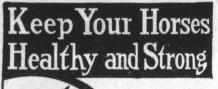
Are Smutty Oats Poisonous? Are smutty oats poisonous to stock and if so can they be treated so they will be harmless to feed? My oats are very smutty this year and I am afraid to feed them, as I have heard they are liable to cause trouble. Allegan Co. L. B.

Cases have been reported where fatal poisoning of stock has occurred from the eating of smutted grass or smutty oats. Experiments with such material, however, when conducted with a view of determining this point, have usually been of an unsatisfactory or contradictory nature and nothing definite may be said on the subject at present which can be backed up by experimental data. Smutty oats should not be fed to horses at least, because of the danger of inducing respiratory troubles which would injure the horse's usefulness. In moderate quantities, fed with other grains, however, present knowledge on the subject would not indicate that the oats would be a dangerous feed. In fact, it is not at all certain that reported cases of poisoning from smutted grain are due to that cause

LIVE STOCK NOTES.

an interchange of blood may serve a use-ful purpose. They possess a robustness of constitution and a development of bone and frame associated with their natural adaption to external conditions of climate and treatment, and when introduced into our own herds will frequently tend to in-crease the size of the latter as well as retain and oftem improve their quality. But the biological principle involved is not be overlooked. Therein lies the dan-ger of putting too much dependence in imported stock. It should be remember-ed that the desirable characteristics which it is the object to have transmitted, have been developed by artificial means and are possibly more difficult to maintain than to acquire. Improvement through

less of a modification in the form and ceipts of such goods as butter, cheese and character of the offspring. As a matter eggs, and further upward movements are of fact, this principle of natural adaption has effected some very distinct modifica-tions in imported breeds; an instance, Eggs have risen to the highest prices being the contrast presented in the St. Lambert and the Island type of Jersey.



Every farmer knows that one well horse will do more work than two sick ones.

Buckeye Feeding Molasses

is the best and is the best and cheapest way to keep your stock in the pink of con-dition. Not a tonic, or a medi-cine, but a natu-ral food that strengthens and strengthens and builds up flesh.

Mix with the regular food of horses, cattle, sheep or hogs; you will see a big improve-ment in 10 days. One user writes: "I formerly paid the veterinary \$60 a month-now he and I are strangers."

Buckeye Feeding Molasses is relished by your stock; it aids digestion, saves feed, and keeps your stock free from colic, kidney dis-eases, colds, etc. Equally good for horses, cattle, sheep or hogs.

Our Free Trial Offer. Send us this coupon today, and get our est proposition. test

W. H. EDGAR & SON, 522 Lafayette Blvd. Detroit, Mich.

	EDGAR 522 Lafay	1	., Detroit, 1	Mich.
I have		head of	cattle	
sheep.	1	nogs and.	h	orses.
that :		Feeding	Molasses	
Name.			R.F.I	
P. O		S	tate	
-		- 10 ⁻¹	-	

ET US TAN OUR HI Cattle or Horse hide, Calf, Doe, Deer, or any kind of skin with hair or fur on, been rugs or gloves when ordered. The standard of the skin or skin or skin been rugs or gloves when ordered. The skin or skin of the skin or skin billiotration which every stock raises should have, but we never send out this skin or skin or skin of skin both ways about our safe dysin pro-beth ways about our safe dysin pro-son our course our safe dysin pro-beth ways about our s



Bigger Stock Profits Mix cut roots with dry feed, *double* its value. Roots hat their place in the feeding economy of every barn and stable. Keep your stock Healthy-they pay bigger profits on *less* feed. The **Banner Root** Cutter is only machine making the "Non-Cut" food from roots, etc. Self-iseding ; cuts isat and easy ; 7 sizes for hand or power. Low prices. Book Free, Address O. E. Thompson & Sons, Ypsilanti, Mich. 10-



State of the success in the success in



391 (8)

CONDUCTED BY W. C. FAIR, V. S.

Advice through this department is free to our subscribers. Each communication should state history and symptoms of the case in full; also name and address of writer. Initials only will be published. Many queries are answered that apply to the same allments. If this column is watched carefully you will probably find the desired information in a reply that has been made to some one else. When reply by mail is requested, it becomes private practice, and a fee of \$1.00 must accompany the letter.

private practice, and a fee of \$1.00 must accompany the letter. Bursal Enlargement.—I have a valuable horse that has a bunch on fetlock joint which our local Vet, has treated for some time with unsatisfactory results. This bunch is soft and I am sure it con-tains fluid of some kind and I would like to know if it can be safely tapped. J. F., Mt. Clemens, Mich.—If you will apply equal parts of spirits of camphor and tincture of iodine to bunch once a day, it will perhaps reduce it somewhat. An-other very good application is made by applying one part red iodide mercury and ten parts cerate of cantharides to bunch once a week. Opening into a bursal swelling near a joint is always done with some risk of admitting infection and causing a whole lot of trouble; therefore, it is considered bad practice unless per-formed by a competent surgeon. Indigestion—Colic.—I have a work horse that runs in pasture daytimes and sta-bled at night. We feed him two or three quarts of oats in the evening and it is not unusual for him to be in great dis-tress after eating them. He acts as though he had colic or was troubled with bots. Would like to know if it would not be a good idea to give all my horses something to rid them of bots? B. B., Kingston, Mich.—Feeding new oats to some animals is very apt to produce fer-mentation and indigestion, but if you will give I dr. salicylic acid, ½ oz. powdered day it will have a tendency to prevent coic. For your other horses give them each two tablespoonfuls ground genitan, and 1 dr. ground nux vonica at a dose in feed twice a day, it will benefit them. I also suggest that you salt them well.

and 1 dr. ground nux vomica at a dose in feed twice a day, it will benefit them. I also suggest that you salt them well. Alsike Poison.—My mare, yearling colt and suckling colt broke into a field of heavy alsike which was then in full bloom; this was in the latter part of June and the suckling colt died two days later. Our local Vet. did not seem to understand the case. Nothing further happened un-til a few weeks ago when yearling colt broke out with a skin eruption on legs, much they came as if he had an attack of scratches. The mare seems all right. We have no Vet. now in Coleman. J. M., Coleman, Mich.—Your sucking colt died the result of eating too much alsike. I do not believe the sore heels of your yearling colt is the result of over-eating in June. Dissolve 4 ozs, acetate of lead, 3 ozs, sulphate of zinc and 3 ozs, carbolic acid in one gallon of water and apply to sore heels twice a day. Give colt a tea-spoonful of Donovan's solution of arsenic at a dose in feed night and morning. Young Pigs Shiver.—We have a bunch of pigs nine weeks old from two different sows, which appear to shiver in hot weather. One of these sows had an at-tack of milk fever soon after she far-rowed and, of course, her pigs were very weak, but they are now large and ap-parently hearty. I cannot understand what should make them tremble and nearly all of them seem to be affected. C. B. F., Clinton, Mich.—If you will feed your young pigs each a teaspoonful of the following compound powder at a dose two or three times a day, it will prevent the shivering you mention. Mix together equal parts ground ginger, gentian, cin-chena, bicarbonate soda, charcoal and salt. I also suggest that you change their feed, and all the better if it is fed to them warm. Cow Fails to Breed.—I would like to know what can be done for a Jersey cow

their feed, and all the better if it is fed to them warm. Cow Fails to Breed.—I would like to know what can be done for a Jersey cow that came fresh last May; comes in heat regularly and has been served several times by two different bulls, but she does not get with calf. She is apparently in the best of health and good condition every way. M E., Schoolcraft, Mich.— When your cow comes in heat, inject her with a soda solution made by dis-solving 2 ozs, bicarbonate soda in a quart of tepid water. Breed her three or four hours after she has been treated. Also give her 1 oz, bicarbonate soda at a dose in feed two or three times a day. Curb—Acute Indigestion.—Three-year-

Curb—Acute Indigestion.—Three-year-ki filly has curb on left hind leg; has hown no lameness lately, but bunch is tuil there. Local Vet. applied a blister, shown stul there. Local Vet. applied a blister, but it failed to reduce bunch. I also have a cow that was seemingly all right in the morning but gave but one pint of milk in the evening; I thought she must have had an attack of indigestion. F. Z., Marine City, Mich.—Apply one part resublimed ioane, one part red lodide of mercury and six parts lard to bunch twice a week. Give your cow 1 oz. pow-dered charcoal, 1½ ozs. bicarbonate soda and 1 oz. ground ginger at a dose in feed three times a day. Nevel Tumor.—Heifer calf six months still there.

three times a day. Navel Tumor.—Heifer calf six months old has a bunch on stifle which is grad-ually growing larger and is now the size of a pint measure. Calf has good appe-tite and suffers no pain unless hand is passed over bunch and pressure applied. I had thought this a case of rupture, but am quite sure it is not hernia. Subscrib-er.—Apply equal parts spirits of camphor and tincture icdine to swelling once a day. I am inclined to believe this a case that should be examined closely, for it may be hernia. be hernia.



offers for sale Masterpiece Berkshire Hogs of all ages of No. 1 breeding, and Holstein Bulls of all ages of No. 1 breeding, and Holstein Bulls of all ages sired by a grandson of Pontiao Korndyke No. 2982, he a sire of Pontiao Pet O. B. C. 037.60 butter and 48 other A. K. C. daughters and his butter and the Archiver and Arbitrary and the Arbitrary and Clotho No. 4772, with a O. R. C. 27.44 butter; milk 553 6; average fat 3.92. This record was made after she was 11 years old. B. C. BANFIELD, Supt., Owendale, Mich.

Lillie Farmstead Jerseys

(Tuberculin tested. Guaranteed free from Tuber-culesia,) Several good bulls and bull calves out of good dairy cows for sale. No fomales for sale at present. Satisfaction guaranteed. COLON C, LILLIE, Coopersville, Mich.

Jersey Cattle For Sale. C. A. BRISTOL Fenton, Michigan.

FOR SALE Beg. Jersey bull calves \$10. Barred Rock cock'ls, fancy Hawkins strain \$1. Bronze turkeys \$3 & \$4. Peter A. Douma, R. 2, Holland, Mich.

Jerseys Bulls ready for service, bred for production. Also cows and heifers. Brookwater Farm, R. F. D. No. 7, Ann Arbor, Mich.

Improved Chesters Spring pigs, either choice young boar and a few sows bred for early fall farrow. W O. WILSON, Okemos, Mich. Both phones. **O.I.C.** Extra choice bred gilts, service boars and spring pigs, not akin from State Avondale Stock Farm, Wayne, Mich **0. I. C'S**—All ages, growthy and large, sows bred. prices on young stock. H. H. Jump, Munith, Mich.

O.I.C's of superior quality. 17 choice young no akin. FRED NICKEL, Monroe, Michigan.

NOV. 2, 1912. **0.1.C's** with size & quality, the kind I can positively money. Newman's Stock Farm, R. No. 1, Marlette, Mich. O UB Imp. Chester Whites and Tamworth swine won for spring farrow of either breed that will please you in quality and price. Adams Bros., Litchfield, Mich. O. I. C. SWINE. Write me for price on Spring of service males of good type. Write me describing of your wants. A. J. GORDEN, R. No. 2 Dorr, Mich. O.I.C. Hogs of all ages, bred sows and gilts, ser-vice males and May and June farrowed pigs. Rolling View Stock Farm, Cass City, Mich. 0 1. C's -A fine lot of last spring stock for sale, big Sired by Grand Champion boar, Scott No. 1. Half mile west of depot. OTTO B. SCHULZE. Nashville, Mich. O. I. C'S-Sows all fsold. Two good boars of March farrow. Write for prices. OTIS GREENMAN, R. 4, Bellevue, Eaton Co., Mich. HAVING moved my herd of O. I. C. swine from Bouthern Indiana to Pompeit, Gratiot Co., Mich-gan, I am now brepared to offer some choice breeding stock for sale. J. R. WAY, R.F.D. 2, Pompeii, Mich. DUROC-JERSEYS-Fall and Spring boars from prize-winning strains. Sows Brookwater Farm, R. F. D. No. 7, Ann Arbor, Mich. LARGE TYPE DURDCS — Spring pigs that are large open fall gilts of the right sort. Let me tell you about anything you may be in need of or call at MAPLE GROVE FARM, Stockbridge, Michigan. THIS **).I.C.** 51 SOW WEIGHED 932 LBS. AT 23 MONTHS OLD IONIA GIRL I have started more breeders on the road to suc cess than any man living. I have the largest and fin set hard in the U.S. Every one an early developer ready for the market at six months old. I want bace one hog in each community to advertise may pince one hog in each community to advertise my herd. Write for my plan," How to Make Money from Hogs." G. S. BENJAMIN, R.No.10 Portland, Mich DUROC JERSEYS One service boar; two bred gifts; spring pigs (either sex). Choice breeding. Prices reasonable. Write or come and see. R. G. VIVIAN, R. No. 4, Monroe, Mich. DUROC JERSEY SWINE-THE BIG KIND. wants. F. A. LAMB & SON. Cassopolis, Mich. I HAVE some extra good DUROC males for sale. I Prices right, last fall and spring farrow. Breeding and quality my standard. Breed sow sale this winter. H. G. KESSLER, Cassopolis, Michigan, Duroc Jerseys for sale: 20 fine service boars of fancy breeding and individual quality. Prices reasonable. John McNicoll, North Star, Mich. DUROC JERSEYS-25 SPRING BOARS FOR SALE. CAREY U. EDMONDS, Hastings, Michigan. DUROC JERSEYS - A few heavy boned boars and gilts for sale. Also fall pige of either sex. Pairs not akin. M. A. BRAY, Okemos, Mich. Duroc Jersey SWINE. Spring and summer-pigs for sale, both sexes. I pay lexpress, 25 years experience. J. H. BANGHART, Lansing, Mich. DUROC JERSEYS-10 Fall and ready for service. Prices right for 10 days. Write or come and see J. C. BARNEY, Coldwater, Mich. Big Smooth Poland China Hogs from large sires, at reasonable prices. ALLEN BROS. Paw Paw, Mich. POLAND CHINAS-Either sex, all ages. Some-thing good at a low price. P. D. LONG, R. No. 8, Grand Rapids, Mich. Big Bone, PROLIFIC POLAND CHINA BOARS ready Write today. Maplewood Stock Farm, Allegan, Mich. POLAND CHINAS-Both Western and Home Bred. Either sex, all ages, Prices right. W. J. HAGELSHAW, Augusta, Mich. POLAND CHINAS-Young sows bred for April farrow. Extra good fall pigs, either sex, L. W. BARNES & SON, Byron, Shiawassee Co., Mich. POLAND CHINAS-Big type spring pigs, ether sex. also Shorthorn Bull calves and Oxford bucks. Prices right. ROBERT NEVE, Pierson, Mich. P. C. BOARS AND SOWS-large type, sired A. A. WOOD & SON, Saline, Michigan. P. C. BOARS-large type-sired by Expression 80439 and E. M. F. 83967. Satis-faction guaranteed. R. W. MILLS, Saline, Mich.

Butler's Big Type Poland Chinas. We have a few big-boned, long-bodied P. C. boars yet in herd. Two big yearlings at \$30. Early spring pigs \$20 to \$25. Summer pigs \$10 to \$15. Fall pigs \$5 each. Pedigree with every pig. J. C. BUTLER, Portland, Michigan.

MICHIGAN'S Great Big Type P.,C. Herd-Boars weigh 25 ibs, at 5% mo. old, net fat. Sold one to head Agricultural College herd. Seeing is believing. Come and be convinced. Expenses paid if not as rep-resented. Free livery. W. E. Livingston, Parma, Mich. TWO YOUNG TAMWORTH BOARS FOR SALE

T. F. MARSTON, Bay City, Michigan. For Sale, Yorkshire Gilts Bred to farrow of August. Also pigs, both sexes. WATERMAN & WATERMAN, Meadow Land Farm, And Arbor, Mich. WATERMAN, Meadow Land Farm, Ann CHOLERA PROOF HOGS. I have more than 5700 swine on my farm and am sell ing grade Yorkshire, Tamworth, Poland China and Duroc brood sows, boars and shoats in any quantity at best Buffalo market price for fat yorkers on day of sale, Sows to farrow scon included. These hogs are not fat, are cholera proof and prolific breeders. Pigs that are 6 to 10 weeks old at \$3 to \$4.

ALVAH BROWN'S PIG FARM, Grand Rapids, Mich. Large Yorkshires -Gilts bred for September farrow; boars for service; pigs either sex, not akin. W. C. COOK, R. 42, Box 22, Ada, Mich.

LARGE YORKSHIRE SWINE-Pairs not akin. Sired by Canadian bred stock. Geo. S. McMullen. Citz. Phone, Grand Ledge, Mich.

Lillie Farmstead YORKSHIRES. A few choice Gilts bred for September farrow, good ones. Spring pigs, either sex, pairs and trios not akin. Satisfaction guaranteed. COLON C. LILLIE, Coopersville, Mich.

PRACTICAL SCIENCE.

THE PRACTICABILITY OF SCIENCE. of their contributions in themselves to

BY FLOYD W. ROBISON. articles during the preceding year will reared before them. observe that we have attempted to furnish classified information in readable form, beginning with the origin and for- who died in faith, not having received mation of soil, following up through the promise but having seen it afar off, plant and animal nutrition, in such a God having provided something better way that there would be some tangible for us that they, through us, should be information which would reinforce him made perfect." in his general reading of the popular scientific literature of the day. Our object in this has been to furnish him with household word and now, more than a fundamental facts regarding the plants century from his birth, we extell his reand animals which would enable him to markable achievements and revere his conduct his own work with far greater name and accept, in the main, his docregard for fact than he otherwise might trine, yet there were others before Darhave been able to do. Not only is this win without whom Darwin could not true, but in the abundance of literature have achieved success. which is found in the agricultural press, referring not only to soils but to plant and even Pasteur. life and animal husbandry, there is an enormous amount of information which spent their lives to wrest from nature is untrue and which it is not possible to her secrets for the benefit of all manadapt to practical conditions on the farm. kind, and mankind has known them not. reader so that he would be in better seen and waste its sweetness on the descondition to pick out the good from the ert air," content to form part of nature's bad and thus classify the information at great plan in the subduing of the world his command. In carrying on this series and preparing a place for the existence of articles we appreciate that the person of a crowning race. Darwin's name is who can point out some line of under- familiar to all because his scientific studtaking which is profitable, is appealing ies have come directly in contact with forcefully to the reader and many of our life and he has popularized the work perwriters and public speakers have spent formed before him by many other detheir time and energies in directing farmers along lines of new venture and sug- does not even know. gesting new principles to govern their So much has thus various operations. been done that has been fascinating and attractive for the time, but which it has of the behavior of nature and has unfoldbeen necessary to cast aside as imprac- ed to the world in general the intricate tical when the test of experiment has workings of the underworld of bacteria, been put to it upon the farm.

which truth and facts are aimed at re- question the greatness of Pasteur, and we gardless of whether they build up or are proud of his contributions to science, throw down, for we believe that we have yet we know that he has achieved re-performed a valuable service to the nown upon the life work of others whose farmer if we can prevent him from devotion to science has made his work spending money and effort on a worth- possible. In paying homage to such a less enterprise, as surely as if we direct- man it will be no discredit to him if we ed his efforts to a proposition that was bow our heads at the same time reverpaying. With these two main points in ently in appreciation of the efforts of the view we have striven, and are striving, unknown workers who have gone before to present the modern research of science him. in a truthful and conservative way, to the farmer.

welfare.

History of Science.

science is in reality the history or record when it appeared at the port of New of the progress of the human race toward perfect freedom from the enslaving chains of superstition and vice. The when it appeared at New Orleans, "Thus early periods of human existence insofar far hast thou come, but farther thou as we have records, were periods of shalt not go." superstition and the masses of humanity drained the marshes of our beautiful were swayed and controlled by those superstitions. ords of those times there were thinkers Union. It is science that turned the whose minds were continually active in flood gates of the rivers of the waste the interests of their fellows. We are deserts of our western states and made building today with some of the stones those deserts as fair as the garden of hewn for us by the thinkers of ancient the Lord. It is science that has given us times. and the highway upon which man has tivities of life. To the biologist in his traveled from the degradation of savage laboratory the language of nature is plain life to the hights of twentieth century and she speaks to him her secrets of cell enlightenment is ever and anon illumi- function and nutrition. He places upon nated by the scientific contributions of the stage of his microscope a drop of great men and deep thinkers.

power of the human mind and during all gle-celled animals for his observations. the years when the flame of human lib- The main physiological functions which erty was flickering and the friends of are present in the human organism are liberty and toleration held their breath there present in this single-celled organest that flame be extinguished, the minds ism but it is more restricted in its enof scientists were shaping and molding vironment. The tiny cell moves along into form and trying in the fiery crucible and comes in contact with a morsel of of scientific inquisition the rock bottom food, remains in contact with it for an principles which are now firmly imbedded instant and begins the function of abin the eternal structure which science is sorption. It then passes on to another building.

Scientific Progress is Slow. human understanding is not rapid. Science is not in harmony with haste ism extremely limited in its environment, and many a year must pass and many a without sense as exhibited by the higher thinker's brow be furrowed before any animals, yet exercising all the functions permanent step is safely reached in the of selection and rejection for which consolution of any of life's problems. Nor scious beings are noted. are the names of great scientists, such as Plato, Aristotle, Archimedes, Gay Lussac, Dalton, Darwin, Van Hoff, Pas- language of nature is revealed in the teur, and others, to be idolized because

science. Their triumph is great, but the efforts of these men were but the crown-The reader who may have followed the ing cap of the edifice which had been How clearly Paul realized this great truth. Speaking of the prophets he said, "These are they

Where the Credit Belongs. Darwin's name has been almost a

Likewise with Dalton and Gay Lussac,

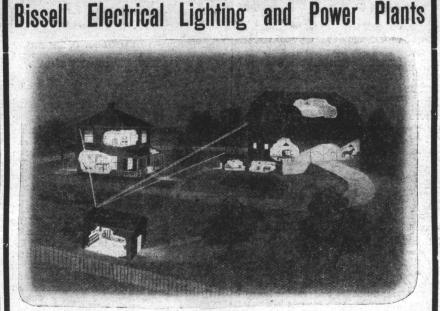
Great men and public thinkers have We have attempted to reinforce the "Full many a flower is born to blush unvout thinkers whose names the world

Pasteur has put the finishing touches to a line of investigation that has promulgated a much clearer understanding the existence of which people in general This department is a department in little dreamed of. We concede without

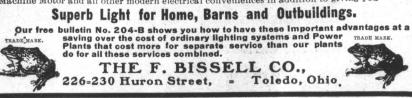
The Dignity of Science.

Little do we realize the extent to which Before taking up the study of the prin- science has permeated our everyday life ciples of human nutrition, let us pause and to what extent, likewise, we are dein consideration, briefly, of the contribu- pendent upon science for the enoyment tions of science to our everyday life, and of the privileges we now enjoy, and, indeed, for the safety that has been thrown around our everyday existence. It is The history of the development of science that said to the Black Plague, "Thou shalt not enter." York: It is science that said to the yellow fever It is science that has Michigan and made it one of the most Yet even among the rec- healthful and beautiful states in the That which is of merit remains our most modern conception of the acwater from a stagnant pool and with the The world stands transfixed by the finder selects one of the amoeba, or sinmorsel, remains in contact with it and bounds away, rejecting the last morsel Progress toward the goal of perfect which, in one way or another, has not been congenial to it. Here is an organ-Science is Practical.

To the psysicist and electrician the (Continued on page 399).



Furnish All Electrical Advantages For Less Than The City Man Pays. With a Bissell Plant, abundant light for all purposes is a by-product costing you only a trifle if you have a good gasoline engine on your farm, because with it you can store sufficient current for night use, while doing your regular daily farm work. If you have not such a power maker, write today for full information showing you how cheaply you can install our complete **Lighting and Power Plant** (Engine, Generator, Storage Batteries and Switchboard), which runs your Cream Separator, Corn Sheller, Feed Chopper, Water Pump and other farm necessities; Electric Suction Cleaner, Flat Iron, Sewing Machine Motor and all other modern electrical conveniences in addition to giving you





We always get two THE D CONDUCTED BY COLON C. LILLIE.

THE NATIONAL DAIRY SHOW.

says a former Indiana man, now living near Dexter. Mo. "Our The Seventh Annual National Dairy land here is stronger and the profits Show opened at Chicago, on October 24. The national character was never more plainly evident than this year, the 46 herds shown representing states from Massachusetts to Washington. The exhibits of dairy machinery have never been surpassed. It is especially gratifying to actual operation, not as models but on a

commercial scale. Demonstrations of pasteurization and bottling were given daily by the Bordens in which several hundred quarts of milk were prepared for the regular trade. On account of recent health board rulings, this subject of pasteurization is receiving more attention than ever before and large crowds watched the demonstration daily. A prominent creamery company operated a model creamery, churning three times a day. A stand was placed to the rear of the creamery so that the entire operation, from the ripening of the cream to the final wrapping of the butter, could be watched by the spectators. Daily demonstrations of the merits of various milking machines were given, and the same method of seating was followed. A vacuum device for cleaning the cows is in actual use in the stables each day and if the appearance of the animals is any indication of its merits, it is a valuable device in the high-class dairy.

The arrangement of the exhibits deespecial comment. All are well serves placed and arranged in such a way that they may be seen by the visitor with a minimum of trouble. The amphitheater is in good condition and the adding of a covered alleyway to another barn across the street will do much to help the International Live Stock Show to be held in the same building the latter part of the month.

A new feature was instituted this year in the form of five herdsmen's prizes to be awarded to the various herdsmen. This incentive has done a great deal to add to the appearance and general neatness of the stables. The prizes are awarded on the basis of condition and cleanliness of herd, courtesy and deportment of the herdsman and attendants, neatness in keeping feed and bunks, cleanliness in stalls and alleys, decorations and attractiveness of the stable, promptness in getting animals in the parade and into the show ring. The idea of awarding prizes to the herdsmen is excellent for much depends on the work of this man, who seldom becomes known. In the Students' Judging Contest on Friday the effect of these prizes was demonstrated.

The contest of this year was the largshow, 14 colleges sending teams of three men each. One man from each institution is placed in a section, this making three sections of 14 men each. From the beginning of the contest until the close at nearly six in the evening the men are not allowed to communicate. They are rated 50 per cent on their placings and 50 per cent on their reasons. Each student had two rings each of Jerseys, Holsteins and Guernseys and one ring of Avrshire cows. Dr. Rawl, of the Bureau of Animal Industry, had charge of the contest, while G. P. Grout, of Duluth, Minn., G. A. Bell, of Washington, D. C., and Will Forbes, of the dairy division of the Bureau of Animal Industry were the judges.

Dealers' Association; the Commission on dormer windows. It is a handsome Milk Standards; the American Guernsey structure with 175 rooms. It is pleasing Cattle Club; the American Dairy Farm- to note that the Stock Yards Company Association: the American Jersey ers' Cattle Club; the Illinois Association of the benefit of visiting stockmen. Farm Press Editors; the Conference of

milk and the training of the animals in stopping and starting was often the deciding factor in awarding the prizes. There were two parades each evening. These, together with the showing of delivery wagon horses, a band, a dairy maids' sextette, athletic contests and some really good singers, served to hold a large crowd in the great arena. As a fitting finale to the evening's entertainment, the calves in the various herds are allowed to run loose and frolic in the arena.

The Cattle.

After all is said, it is upon the cattle themselves that the life of the show desee machinery not only on show but in pends. The city visitor wonders at the machinery, absorbs some of the benefits of the educational exhibits but when he reaches the cattle stalls a different feeling possesses him. The new out of town visitor stands by and singles out the merits of the various animals while the fascination to the old timer is never ending.

> As was anticipated, the show at Milwaukee attracted a number of herds that have been exhibiting at the National Dairy Show and according to breeders, the Waterloo, Iowa, show was the big one of the year in point of numbers. After it ended the herds split, those of poorer rating going to Milwaukee in spite of a chance for the reversal of decisions by new judges. But in spite of the fact, some 700 cattle of the best individual merit and the bluest blood in the country fill the stalls. With the exception of the Ayrshires, represented by two herds, the number of entries compares well in all classes with the show of last year. According to Supt. Irwin, the quality is better in all breeds and classes. With this show as the grand finale of the circuit, the cattle are in the pink of condition and in addition to the great individual showing represent the finest lot of dairy cattle ever assembled on the continent. This year, the breeds are grouped and

all are housed together in a large building adjoining and connected with the arena by means of a wide and easy incline. The quarters have especially good light, are well ventilated, provided with dry, sanitary stalls and excellent facilities for washing. The breeders pronounce them the best ever provided for them. The aisles are decorated in a pleasing manner. The breed associations have their quarters in the same building.

The Guernseys lead from every stand-Breeders pronounce the 215 head point. on exhibition the best lot ever gotten together. M. H. Tichenor, of Wisconsin, the owner of Dolly Dimple, has a most formidable array. W. W. Marsh, of Iowa, is showing Glencoe's Bopeep, 1st at Waterloo, and Dairy Maid of Pinehurst, winner of the Iowa Dairy Cow Contest. L. Ames, of Massachusetts, has some 32 likely ones on hand that must be reckoned with. Charles Hill, of Wisconsin, is another strong bidder for honors.

The Holsteins loom up strong with 175 est ever known in the history of the animals in the stalls representing eight The Jerseys come next with 14 herds. herds, aggregating 150 head. Elmendorf Farms have an exhibit. The herds of Adam Sietz, of Wisconsin, and Barclay Farms, of Pennsylvania, with a total of some 75 head represent Ayrshires. There are two herds of Brown Swiss. E. J. Kirby, of Michigan, and L. M. Strader of California, represent the Dutch Bel+-d Two millionaires, Howard Gould and Jas. Hagin, are each showing a few of poor Irishmen's cows-the diminutive Dexters receive much attention.

One of the new improvements about the yards is the new Stock Yards Inn, just facing the International Amphitheater, built by the Union Stock Yards & Transit Co., at a cost of \$250,000. It is Among the meetings being held during of brick, in the old English style of arthe show are: The International Milk chitecture with many-gabled roofs and has seen fit to erect such a structure for

(Continued next week).

Farm Press Editors; the Conference of Dairy Cattle Judges; the Holstein-Fries-ian Association and a large number of others. The benefits $s \neg d$ advantages from holding meetings of such associations in ning to be realized. Another feature that is attracting much attention is the showing of milk and but-ter delivery horses to wagons. Two classes are judged in the arena each night and the applause when the final ribbons were awarded shows the growing popularity of the contests. In the milk delivery classes the drivers are required to drop off bottles at various stations on the route as well as to pick up cases of



It takes the very best of salt to bring out the full flavor of hams and bacon.

Worcester Salt makes a clean, sweet, sparkling brine. It gives to meat a flavor not obtainable with other salts. It produces the sweet, tasty kind that commands the highest prices.



The Salt with the Savor

Lord

ADBCESTER

BRAND

AL

CESTER SALT C

Worcester is best for butter-making. Its fine, even grains and its sweetness make it a perfect dairy salt.

For farm and dairy use, Worcester Salt is put up in 28 and 56-pound bags. The bags are made of the best quality of Irish linen. Get a bag and try it.

Write for booklet, "Curing meats on the Farm." Sent free on Sent free on request

WORCESTER SALT COMPANY Largest Producers of High-Grade 101 Just Salt in the World NEW YORK



good crops a year

living near Dexter, Mo.

[Wheat of Ferd Seyer, Illmo, Mo.]

In Indiana we had good corn

land but we had trouble keep-

ing up fertility. Here we can keep up our land with clover and cowpeas and

Last year our corn averaged 75 bu. per acre. We have made 90 bu. We double up on corn with cowpeas, like we do on wheat with clover." Wheat yields regu-larly from 20 to 40 bu. per acre along the

Cotton Belt Route

in Southeast Missouri

C. D. DeField, of East Prairie, Mo. told me that he raised forty mules last year without doing any winter feeding at all. With green pastures all year, cattle and hogs go through the whole winter without feeding. Think what that means in these days of \$10 beef.

what that means in these days of \$10 beef. The alluvial soils of the St. Francis Valley are the richest in the world - 10 to 50 feet deep - producing bumper crops of corn, clover, alfalfa, cowpens, etc. And the richest soils make the richest people. The sverage net surplus of each family in this section is \$850 per year. They are enjoying, too, every social advantage of good schools, churches, phones, rural free delivery and close markets. The government reports this the fastest grow-ing section in America; and hand values are growing faster than the population. \$15 per are was the price a few years back; now it's around \$20. Get some before it goes any higher.

around \$20. Get some before it goes any higher.

On the 1st and 3rd Tuesdays of eachmonth there are low round trip excursions via Cotton Belt Route, allowing 25 days' time and free stopovers. Go on the mext one.

Get our free book!

Written by a farm man who knows farming from A to Z. He traveled all through this sec-tion to learn where the *real* farm opportunities were - the kind he knew you would grasp if you saw them. He tells you, in plain words, all about them. 50 pages and farm pictures. Send a postal today for your free copy.

Drain Your Land

for 4 cents a Rod

We guarantee this horse power Cyclone Tile Ditching Machine cuts tile ditch, 10 in-ches wide, 24 inches deep, at rate of 300 rods a day. Finished ditch cut, tile laid and covered, for 3 or 4 cents a rod in average soil. Read our free book giving information, from U.S. Govt. authorities on Drainage

Cyclone Tile Ditching Machine

pays for itself in first 20 to 40 acres you drain, according to spacing of laterals. Increased crops all profit. Make hun-

Increased crops all profit. Make fun-dreds of dollars on your own ditching, and cutting ditches for neighbors. Anyone who can plow can oper-ente successfully. Write for free book showing, The Money Making Way of Draining Land. Box 11/ Box 11/ Believe, Ohio

The Champion Adjustable Swinging Cattle TANCHIONS

Patented August 8, 1911. The modern Humane Stanchion, safest, sim-plest, easiest to operate, most durable in con-struction. Entirely different from all others, Guaranteed, Write for free descriptive booklet.

CHAMPION MFG. CO., Grand Rapids, Mich.

WANTED-Railway Mail, Customs, Internal Revenue and Postal Clerks. Examinations soon. Pre-pare now, Trial lesson free. Write OZMENT, 17 R, St. Louis.

fanura. Dra.

E. W. LaBEAUME,

General Passenger Agent 1473 Pierce Bldg., St. Louis

COTTON

BELT,

ROUTE

get good revenue besides.

from crops greater than

where we came from."

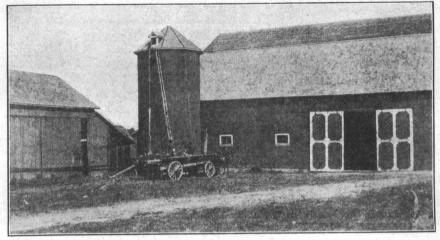
NOV. 2, 1912.

MILK FEVER.

We just recently had a case of milk cow had milk fever last year. Other than this we have had no cases of milk relief and save the cow. fever for several years. In fact,' this and carry off so many of our best cows has ceased to cause us very much anxiety. cases of milk fever in recent years, I erinarians to take the grain all away think, is due almost entirely to our method of preventing it. This disease has not hay, scrimp her in feed so that she was do know, or think we do, at least, that ment would not produce the best results it comes because the cow is relieved of from a dairy standpoint. A cow in poor all the milk in her udder soon after calvthe cow out clean for the first two days butter-fat economically, she isn't in conwe seem to have prevented milk fever dition to do so, and yet a live cow that

almost sure to die. Now, however, if the non-removal of the milk from the udder does not prevent the disease the fever at Lillie Farmstead. This same inflation of the udder with air if taken in proper time is practically certain to bring

Several years ago the only preventadread disease which used to be so fatal tive we knew for milk fever was to starve the cow to keep her from getting in a lethargic condition before she freshened. The reason why we have had an People were advised formerly by yetfrom the cow, give her nothing but dry been understood even by the most learn- actually thin in flesh before she came in. ed veterinarians. In fact, it is scarcely Then she was not very liable to have understood at the present time. But we milk fever. But, this manner of treatcondition when she freshened will not ing, and by being very careful not to milk give as much milk, she will not produce almost entirely. Sometimes a cow has would do fairly well was much better



Silo-Filling, a Common Job in Every Dairy Community.

an exceptionally vigorous calf and it gets than a dead one. Now, however, when again, a cow having had milk fever once, in good condition, and there is practically is more susceptible to it the next time no danger of loss from this disease in she freshens. In both cases, however, the handling of a good dairy cow. we have succeeded in bringing the cow through in good shape. Both times we sent for a veterinarian because our air pumps were out of commission and also because the boss was away from home. In both instances the veterinarian came and forced sterilized air into the udder, out in good shape.

There is certainly a peculiar thing about this dread disease, and no one can understand it. The reason why removing all the milk from the udder of the cow at one time so soon after calving caused parturient apoplexy or milk fever can hardly be explained, and yet that seems to be the direct cause of it, and when the udder is inflated with air to bring about the original pressure caused by the full udder then the cow is relieved, and sometimes the relief is immediate. The cow is relieved so that she gets upon her feet and acts apparently well in a very shert time. Some cases, however, are more persistent, and the cow does not get up for several hours. In this particular instance the cow was up in five or six hours, and in two days she was apparently in normal condition.

We haven't lost a case of milk fever since the air treatment was discovered. Before that time it was nothing uncommen to lose one or two cows each year. think then, however, that if we had known about not removing all of the milk from the udder at one time soon after calving that we could have prevented a large share of the losses which formerly had, even with the old we treatment, because we now prevent it by not milking out what the calf did not take. The result of milking the cows out clean at freshening time was that every milk ering that if we would only milk out a fat, 8.32 fbs. of nitrogenous substances little of the milk night and morning until not fat and 1.35 lbs. of mineral matter, the third day the cows didn't have milk or 22.60 lbs. of solid matter. Thus, it fever, and besides that the discovering will be seen, the cow giving an average of the air treatment of inflating the ud- quantity of milk will yield more than der in case they did have it has removed twice the total solid matter that the almost entirely the horrors and the mor- steer yielded. Several years ago it was tality of this dread disease. This dis- determined by the Ohio Station that a covery of the idea of inflating the udder cow will produce a pound of butter-fat has been worth untold money to the with the same quantity of feed that a dairymen of this country. Before that steer will require to produce three lbs. the loss from milk fever was something of flesh. For further evidence of the abtonishing and it always took the best economical qualities of the dairy cow cows. The poor cows and the young note the tendency of feeding to decrease helfer rarely, if ever, had milk fever. It and dairying to increase on high-priced is the best cow in the herd and she was land.

up and nurses too much the first thing, we feel safe upon this question of milk This, I think, is largely the trouble with fever we can feed the cows a grain raour present case of milk fever. Then tion before they freshen and keep them

COST OF PRODUCING MILK.

An investigation made last year by the dairy department of the College of Agriculture, Ohio State University, shows that the average cost of producing a gave a little tonic, and the cow came gallon of milk in Ohio is about 25 cents, or 6.25 cents per quart, allowing 3,200 pounds per cow per year as the average milk production. This takes into consideration the cost of feeds, labor, interest on investment, maintenance, insurance, taxes, etc. When 'the average milk production per cow is increased the cost per quart is decreased. The average cost of distribution is 3½ cents per quart, making a total of 9.75 cents per quart as the cost of producing milk and delivering it to the consumer. This means when milk retails at 10 cents a that quart, the average producer and distributor is making little or no profit in the transaction. Where high producing cows are kept and economic methods of handling and distributing on a large scale are employed, the above figures are greatiy reduced and there is a fair profit in the dairy business. However, it is the average producer, who keeps average cows, the rapidly increasing cost of feeds and labor and the greater demand for sani-tary conditions that are contributing to the high price of milk.

ECONOMY OF DAIRY COW.

The dairy cow is a more economical producer of human food than the steer. Lawes and Gilbert have calculated that a fattening steer which gains 15 lbs. in weight per week yields 1.13 lbs. of nitrogenous substance, 9.53 lbs. of fat and .22 lbs. of mineral matter, or 10.88 lbs. of total solid matter. A dairy cow givfever. With the old treatment a large ing 10 qts. of milk per day yields 6.60 per cent of them died. Then, by discov- lbs. of nitrogenous substance, 6.33 lbs. of



395 (7)

396



EGGS, Etc. -Small consignments from pro-stractive prices. Returns day of arrival. Refer to Mich. Farmer, Dun's or Bradstrocts. Butter & Eeg Co., 355-50 Greenwide St. New York,N.T.

CARE OF DUCKS IN WINTER.

Some readers of this paper will be wintering ducks this year for the first time, and therefore desire to avoid mistakes that nearly all amateurs make, Ducks should have a good, comfortable house to stay in at night, and also during cold, disagreeable days.

We keep our ducks in houses built especially for the purpose. However, almost any ordinary house or shed can be converted into a duck house at small expense, provided it has never been occupied by other poultry and is free of vermin. Ducks are very timid and should never be kept with other poultry, especially chickens. They thrive better in a house by themselves. Noise, such as the cackling of hens, will keep a flock of ducks in a state of nervousness.

If new houses are to be built they should be made substantial, so that they can be used for the purpose several years in succession. If they are properly built they will be suitable for either old or young ducks. As a rule, no shelter is necessary for old ducks during the summer or early fall months, except in wet weather. Ducks sit on the ground when out of doors, and if it is cold or damp they are apt to suffer from cramps or develop colds and roup.

Our house, which is 20x40 feet, is large enough for anywhere from 50 to 200 ducks, according to age and variety. This house is built with a shed roof. It is about 10 feet high in front and five feet at the back. There are four doors and four windows, and the floor space is divided into four compartments. The partitions are just high enough to keep the old ducks from flying over. They cannot fly very high. No roosts or nest boxes are required, but they need plenty of straw or litter on 'the floor to "roost" upon. This litter should be renewed frequently. Sawdust is not a suitable floor covering, because the ducks are liable to eat it.

Where large numbers are kept, feeding racks are almost a necessity. They are not difficult to construct and will save a great deal of feed, or rather, will prevent it being mussed over by the fowls. Feed placed in a feeding-rack is sure to be cleaner than that placed where the ducks can paddle over it with their feet. This rack is built as follows: Take two pieces of scantling, heavy enough to be quite substantial, of a suitable length; also, two short pieces for the ends of the frame. The trough is nothing more nor less than a board about 10 inches wide with narrow strips nailed along the edges. The frame is used for the top of the rack, which is made on the same plan as an ordinary sheep-rack. Slats are about three inches wide and 18 inches long and they are placed about three inches apart. The slats are nailed securely to the frame at the top and at the lower end they are nailed to the edges of the trough. We then place this trough, rack and all, on blocks about six inches high. This raises the top of the rack to about two feet from the floor. The ducks will not try to fly over this. The feed can be evenly uistributed along the trough, so that the fowls can reach it from either side.

These rack-troughs can be used either in the house or outside. In winter, we feed in the house. Ducks cannot endure much cold. Their feet suffer greatly when they have to walk through snow, unless the weather is mild. However, it is best to keep ducks out of snow and off frozen ground if eggs are wanted when prices are high and hen's eggs are scarce, or if one expects them to lay well early in the spring when eggs are wanted for hatching.

comfortable house will give the same results with ducks as with chickens. Indeed, we find that a duck will respond to good treatment even more quickly than a hen. This is especially true of the Indian Runner. With proper care these ducks will begin laying early in the fall and continue until the following summer. Then they take a few weeks' rest and grow a new coat of feathers. When they stop laying they may be picked, if one wants to save the feathers, but we never pick our layers. They are allowed to moult at leisure. Old and young are kept separate until the latter are matured, or nearly so, as young ducks thrive better alone than when kept with the old ones.

(Concluded next week).

For your work you need suspenders that yield to the motions of your body.

You want them to wear well, to be comfortable and you don't want to be bothered with buttons pulling off.



are what you need. They have a Sliding Back that gives and takes—that makes them comfortable. They outwear other kinds of suspenders because the strain does not all come on any one part. They will not pull off the buttons because the Sliding Back distributes the strain.

To prove that Shirley President Suspenders do what we claim, we make the following offer:

Wear a pair of Presidents for a month. If you do not like them, we will buy them back at the price you paid. Also in Medium Weights and in Extra Lengths for tall men. A Signed guarantee on every pair.





SAN JOSE SCALE IN THE FALL.

the two most serious orchard insects that we have to contend with in Michigan at them. I thought the fruit would not pay present. Already it has killed thousands of acres of fine apple orchards and has so badly injured hundreds of others that object to keep in mind while spraying. they will not last long. Not only has it proven one of the worst orchard insects but it has also done incalculable injury to the numerous beautiful fruit trees formerly found in our city and village yards and it has also attacked many of our ornamental shrubs and made barren many yards that were once the pride of their owners, and it still spreads from tree to tree, from orchard to orchard, from community to community, and even into new and remote sections where it has not been dreaded before. In the last case it is carried on nursery stock and before the unsuspecting orchardist knows he has it, many of his trees are dead or dying and the dreaded pest has gained a foothold in his neighbor's orchard or shrubbery.

For a number of years various spray mixtures have been in use in the fight to save the orchards of this state and other states, and several of them have given partial satisfaction. The oil sprays killed the scale all right, but frequently killed the trees also. Lime-sulphur solutions against breaking when they are carrying have proven the most satisfactory be- too heavy loads, it occasionally hannens cause they are cheap, efficient, and if that a tree gives away where we least used properly do no harm to the trees or Commercial lime-sulphur has shrubs. largely taken precedence over the old length of the trunk from the branches to home-made solution, because of the convenience of its use.

Many fruit growers have complained that they could not control scale with tar and with a woven wire fence stretchthe commercial solution of lime-sulphur or the home-made concentrated solution, but an inquiry into the cases invariably reveals the fact that the spray material was not made strong enough or was not thoroughly applied, or for both reasons combined. If a standard guaranteed brand of commercial lime-sulphur is used in the proportion of 1 gal. to 71/2 to 8 gals. of water and the bark of the tree or shrub absolutely covered, every scale will be idlied. But it is a very difficult thing to completely cover every particle of the bark, especially in the high tops of old apple trees or in the thick bunches of shrubbery alongside of a house; in fact, it is so difficult to do, and so seldom done, that where scale once gets a hold it is most sure to stay. It cannot be entirely gotten rid of. When scale once gets into an orchard, its owner might as well realize that if he expects to keep his trees healthy and bearing, he has one annual job at least to per-form, and that job is "spraying for scale in the applies" in the spring.

Many times it is suggested and recommended by orchardists and spray manu-facturing concerns, that fall spraying would be better than winter or early spring spraying, but experience in this occur in limited areas in Maine, New state has proven that spraying with Hampshire, Massachusetts, Rhode Island strong lime-sulphur in the spring as late and Connecticut and as the egg masses as possible before the buds start, is the of the insect may be transported on after having submitted to the cold of the and shrubs, or on forest products, such winter. Spring spraying is preferable also as cord wood, lumber, telephone poles, because its influence as a fungicide for railroad ties, etc., it is necessary that scab, canker, curl leaf, black knot, rots, every possible means be taken to pre-etc., is much more valuable than that of vent distribution to other sections of fall spraying.

However, fall spraying should not be entirely discouraged, especially in ex- is proposed to establish a quarantine tremely bad cases of scale, when both a covering the district now known to be fall and spring spraying would undoubt- infested with this insect in order to regedly be a wise procedure for the first ulate shipment from such district of year and after that one thorough spraying in the early spring should be sufficient to keep the scale in control. Mich. Agri. Col. O. K. W O. K. WHITE.

ING OPERATIONS THIS YEAR.

mistakes that we progress. So it is mis- in all probability be prohibited, except takes that I am going to write about. I in so far as it may be possible to inspect hate to make mistakes and many times them. I hate to acknowledge them, but I have made some this year in my spraying that with the law a public hearing will be I intend to avoid next year and, maybe, held at the Department of Agriculture, by making mention of them someone may Washington, D. C., on October 30, 1912, benefit by my experience and avoid mak- at ten o'clock, in order that all parties ing them also.

apples I found on very large trees some ability of placing a quarantine on cerapples that were so scabby that they tain portions of New England to prevent were not marketable. I will prevent a the spread of the gypsy moth, and imrepetition of this by building a folding mediately after this hearing one will be tower such as was described in The held with regard to quarantining against Farmer last spring, on the top of my the brown tail moth.

spraying machine platform, which will enable me to get four or five feet higher and this year where I used a 10-foot rod I will use a 14-foot rod next year, so that these places that I could not reach I shall reach without fail next year. Again, there were some trees in my or-San Jose scale is undoubtedly one of chard this year that blossomed but little so I did not take the trouble to spray for the spraying. But now I am convinced that the fruit is not the whole To say I was ashamed is putting it mildly, when a party of people who motored twenty miles to see my apples went into raptures over some exceedingly large Tolman Sweets that I had not sprayed on account of their being so few on the tree. These apples were so wormy that they were fit for nothing but the hogs. I have firmly resolved to spray every tree that has a dozen apples or else pick the apples off and throw them away before the codling moth has a change to get in its work.

Another mistake I made was to assume that the first spraying, when the trees were dormant, which was very thorough, had destroyed all the scab spores, and that subsequent sprayings were principally for the codling moth. While] used lime-sulphur solution I did not take the care to get it the proper fungicide strength and the result was a little scab in places when there ought not to have been any.

While we aim to protect our trees too heavy loads, it occasionally happens expect. I have in mind a large Northern Spy tree which has been split the whole the ground, a distance of about four I have decided to chop out all the feet. splintered wood, coat the surface with er draw the parts together firmly and bolt them. I am firmly convinced that the tree will be practically as good as before such treatment.

R. G. THOMAS. Berrien Co.

PUBLIC HEARINGS ON GYPSY MOTH AND BROWN TAIL MOTH.

By Section 8, of the Plant Quarantine Act, approved August 20, 1912, the Secretary of Agriculture is authorized and directed to quarantine any state, territory, or district of the United States, or any porion thereof, when he shall deter-mine the fact that a dangerous plant disease or insect infestation, new to or not theretofore widely prevalent or distributed within and throughout the United States, exists in such state or territory or district.

Before establishing such quarantine the secretary is directed to give a public hearing, at which hearing any interest ed party may be present and be heard. either in person or by attorney.

The gypsy moth is one of the most destructive insects which attacks fruit, shade and forest trees. It is known to The scales are more easily killed Christmas trees and green, living trees the United States.

In order to accomplish this purpose it plants or plant material which may carry the pest. If the proposed quarantine is established, the secretary of agriculture will issue regulations providing for the inspection of material to be shipped MISTAKES IN CONDUCTING SPRAY- out of the quarantined area which is liable to transport this insect. The shipment of Christmas trees and Christmas It has been said that it is through our greens out of the quarantined area will

Notice is given that in compliance interested may appear or be represented, When I commenced packing my fall to give testimony concerning the advis-



"BALLBAND"

best crop and good rubber alone cannot make a good rubber boot.

It takes time, skill, work and conscience to make both crops and boots worth while.

TRADE BAND

The first thing we do when we make a rubber boot, an arctic or a knit boot, is to learn the farmer's problems and build our boot to fit his needs as well as his feet.

It takes more than good rubber, though. Rubber has to be treated-hardened for the heel, toughened for the sole—made stronger where your toes work up and down —and seams must be tight. We believe that "Ball-Band" Boots and Arctics are made so well that if you figure on the cost per day's wear they give, you will find them the lowest priced boots you can buy.

Look for the Red Ball on rubber footwear. It's the "Ball-Band" trade-mark and is put there for your protection, to satisfy you that you are getting our goods.

After you have worn one pair of "Ball-Band" boots you will know what real quality is. For every cent they cost you, you get a full return of wear and satis-faction. Over 45,000 dealers sell them. Eight million men wear them. If your We dealer cannot supply you-write to us. will send you the name of a nearby dealer who can supply you.

Mishawaka Woolen Mfg. Co. Mishawaka, Ind. "The HouseThat Pays Millions for Quality"

buckle and on cold and wet, we good shoes, ye "Ball-Band" your feet and h

Arctics. Four

"Ball-Band" buckle and c



Com-Coon Tail Knit Boot. pletely shrunk. Bo unk. Boot ed woolen yarn, ape that stays, and snow proof snow excluder. Keep your feet to fit.



The Michigan Farmer ESTABLISHED 1843. THE LAWRENCE PUBLISHING CO. EDITORS AND PROPRIETORS.

to 45 Congress St. West, Detroit, Michigan. TELEPHONE MAIN 4525.

E. H. HOUGHTONBusine TERMS OF SUBSCRIPTIO Five Years 260 Copies Postpaid	es Manager
L R. WATERBURY O. E. YOUNG BURT WERMUTH. ALTA LAWSON LITTELL	Associate
M. J. LAWRENCE	President

Always send money by draft, postoffice money order, gestered letter or by express. We will not be re-ponsible for money sent in letters. Address all com-tunications to, and make all drafts, checks and post-files orders payable to, the Lawrence Fublishing Co. RATES OF ADVERTISING:

40 cents per line agate measurement, or \$5.60 per lach, each insertion. No adv't inserted for lices than \$1.30 per insertion. CJNo lottery, quack doctor or swindling advertise-ments inserted at any price. Entered as second class matter at the Detroit, Michl-gan postoffice.

COPYRIGHT 1912 by the Lawrence Pub. Co. All persons are warned against reprinting any portion of the contents of this issue without our written permission.

WE GUARANTEE to stop THE MICHIGAN FARMER immediatly upon expiration of time sub-scribed for, and we will pay all expenses for defending any suit, brought against any subscriber to The Mich-igan Farmer by the publisher of any farm paper, which has been sent after the time ordered has expired, providing due notice is sent to us, before suit is started. Avoid further trouble by refusing to subscribe for any farm paper which does not print, in each issue, a definite guarantee to stop on expiration of subscrip-tion. The Lawrence Publishing Co. Detroit, Mich.

Just be Lavrence Publ. Co. All percent as example and the strence of a standard presention of the second of a probability of the second as the corange of the strence of the stre

ture train insti-tute held at St. Ignace on Monday last, closed a special twelve-days' campaign in the Upper Pe-ninsula by instructors of the Agricultural College and Experiment Station men who, during that period, stopped at about 30 cities and towns and appeared before about 12,000 people. The route carried the instructors through all but about five of the counties in the Peninsula. The interest ran high, instances being report-ed of farmers traveling 25 miles to avail ed of farmers traveling 25 miles to avail themselves of the instruction offered.

The train consisted of seven cars, four apple sections where apples are packed of which were used for demonstration in barrels and for this reason will work

THE MICHIGAN FARMER.

The size of the barrel mentioned in Section One is the size in general use in purposes, one car being devoted to dairy little hardship in causing no radical

<page-header><page-header><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text>

by the party. The board of supervisors of Saginaw

the next governor of the state to recom-mend to the next legislature the erection Way of a House of Correction along the same been of a House of Correction along the same lines as that owned by the city of De-troit. Detroit recently cancelled its con-tract with Saginaw county for permitting persons to be sent to the House of Cor-rection in the former city. Since then the jail at Saginaw has been overcrowd-ed. The resolution will also be forward-ed to the clerks of all counties of the state. state

NOV. 2, 1912.

And the main a nonverse structure many is a structure read of the structure of the structure many is a structure read of the structure re

figur size of development to be severely blighted. Grain threshing about done and silos filled with corn that was well matured, as no killing frost came early. Large acreage of wheat sown; warm days and moist ground have caused it to make rapid growth. Some rye being sown. No fall plowing done yet. Pastures good; second cutting of hay heavy; mostly cut for hay, as little seed is to be found in heads. Some hay being sold at \$13 per ten. Other markets quiet.

heads. Some hay being sold at \$13 per ten. Other markets quiet, Ohlo. Wayne Co., Oct. 14.—The weather has been very pleasant for nearly three weeks, part of the time having real sum-mer weather. The wet weather is par-tially broken. Wheat sowing just about completed, some of it sown very late. act with be sent to the House of Cor-completed, some of it sowing just about estion in the former city. Since then Early sown wheat looking fine. Corn he jail at Saginaw has been overcrowd-action will also be forward-d to the clerks of all counties of the vielding only about half a crop, on ac-count of rot and grub eating. Butter, Wm. Palmer, an employe of the Alma 28c; eggs. 25c.



THE PRACTICABILITY OF SCIENCE. (Continued from page 393).

transmission of sound and in the production of electric stimuli. Who did not marvel at the wonders of the telephone and telegraph, and with what reverence almost do we not consider the discovery which permits, with the single pressure of an electric button, a message to be flashed through a thousand miles of space. The scientists in these matters have not been working to accumulate information and to unravel nature's secrets for the purpose of furnishing abstract information, for the C. Q. D. or the S. O. S. is being used as a daily means of saving human life.

The chemist and the psysiologist have learned, likewise, that before an intimate knowledge of the nutritive processes of man and animals can be understood, the mystery of the life of the single-celled bodies must be unraveled.

The Stone Which the Builders Rejected. One of the most difficult things for students to learn and for the public generally to recognize is that the discovery of the fundamental principles of life activity are never revealed spontaneously. They are the result of a natural evolution or systematic building in which many scholars have devoted their lives. If we were to judge any of our great men upon the failure of their prophecies, or the success thereof, most, if not all, would fail. Much more is said that is not true than that which is true, and the history of the scientific achievements of this day, when recorded a few years hence, will be free from many of the things which we now deem vital. Time smoothes cut the lines and blots out the undesirable and what finally is reared in the great structure that science is building, will be a few stones which have been selected from many and, in fact, which in this generation may have been rejected entirely, for very frequently is it true that the stone which the builder has rejected has become the head of the corner.

INTERNATIONAL CROP REPORT.

INTERNATIONAL CROP REPORT. A cablegram, dated Oct. 21, 1912, from the International Institute of Agriculture, Rome, Italy, has been received by the United States Department of Agriculture, giving the following information: Wheat.—The preliminary statement of production in Algeria is 27,173,000 bu. The total production in the countries named below is given as 3,257,000,000 bu., or 7.2 per cent more than they produced last year: Prussia, Belgium, Bulgaria, Denmark, Spain, France, England, Ire-land, Wales, Hungary, Italy, Luxemburg, Norway, Netherlands, Roumania, Russia, (73 governments), Switzerland, Canada, United States, India, Japan, Egypt, Tunis and Algeria. Oats.—The preliminary statement of production in France is 375,613,000 bu., Ireland 62,482,000, Algeria 12,352,000. The total production in the countries named below is given as 4,084,000,000 bu., or 20.7 per cent more than they produced last year: Prussia, Belgium, Bulgaria, Den-mark, France, England, Ireland, Wales, Hungary, Italy, Spain, Luxemburg, Nor-way, Netherlands, Roumania Russia, (73 governments), Switzerland, Canada, Uni-ted States, Japan, Algeria and Tuni's. Corn.—The preliminary statement of production in Roumania is 88,580,000 bu., Craada 14,218,000, Egypt 69,804,000. The total production in the countries named below is given as 3,620,000,000 bu., or 16,4

Canada 14,218,000, Egypt 69,804,000. The total production in the countries named below is given as 3,620,000,000 bu. or 16.4 per cent more than they produced last year: Bulgaria, Roumania, Spain, Hun-gary, Italy, Russia (73 governments), Switzerland, United States, Canada, Egypt, Algeria and Tunis. Sugar Beets.—The estimated produc-tion in tons of 2,000 bs. is, for Prussia, 14,430,000; Belgium, 2,006,000; Denmark, 886,000; Italy, 1,653,000; Sweden, 1,091,000. Rice.—The production in Japan is es-timated at 367,656,000 bu.

timated at 367,656,000 bu.

Farmers' National Congress, New Or-

Pull

1

Stump

With the Famous

Hercules!

137 21st St.,

leans, Nov. 7-12. leans, Nov. 7-12. The thirty-second annual meeting of the Farmers' National Congress, which occurs in New Orleans, La., Nov. 7-12, promises to be of more than usual inter-est because of a proposal to convert the organization into a country life federa-tion. The new constitution, which will be adopted or rejected by the delegates at this meeting, proposes a federation of all associations, institutions and other general expansions primarily interest. Automatic and the sense of the



Kirschbaum Clothes \$15, \$20 and \$25

The leisured Clubman of the great cities wear no more authentic styles than are offered you in these Kirschbaum Specials. In value of weave, color and fabric, Kirschbaum Clothes are not equalled for the price.

Not the slightest trace of cotton will you find—''all-wool'' and hand-tailored every one. Then, there is a refinement of detail—a thoroughness of finish that is a gratification as long as the clothes are worn.

Kirschbaum Clothes keeps shape indefinitely. For they are twice shrunk by the famous London Cold Water Process, until the fabric will shrink no more.

Remember, the Kirschbaum Guarantee goes with every Suit or Overcoat. It means perfect satisfaction or the return of your money.

Somewhere in your locality is a Kirschbaum dealer-seek him out or drop us a card and we'll send you his name. Art Calendar Free

Exquisite color reproductions from oil paintings of scenes in Russia, showing Men's correct styles for Fall, Write for your calendar. Address Dept. B.

A. B. KIRSCHBAUM CO. " The House With the All-Wool Policy " PHILADELPHIA LOCAL OFFICES :

NEW YORK BOSTON CHIC LOS ANGELES SAN FRANCISCO CHICAGO



White Chinchillas and Velvet Coats the Rage– Henriettas Again Good.

If there was any proof needed of the between the cords. old saying, "There is nothing new under prune, taupe, dark gray and brown. the sun," it would be furnished by fashions. cloth, after having been taboo for several Manitoulin island. A buyer who visited seasons, is being shown this fall? And the island this past summer was so dealers are assuring us solemnly it is charmed with the shade of the bluebells going to be extremely good, with a that he had it reproduced as nearly as very strong accent on extremely. It is possible and it is one of the season's new in almost identically the same shades colors. One sees it in the silks as well that we wore, I won't say how many as poplins. years ago, another proof of nothing new. Wistaria, It gave me a feeling of extreme old age Beauty, mole taupe, plum and prune are to see a piece of Henrietta exactly like all good in the crepe meteors, charmeuse the one which made up my "best dress" when I was a girl. Mahogany color we ular silks just now. A novelty in sfiks called it then. They have a new name are the accordeon pleated ones. Good for it now, copper color.

Henrietta will be chosen by the woman who does not want to pay more than \$1 black. the fird for her dress, for she can get a very good piece at this price, though it comes as high as \$2. Besides the copper shades there are numerous others, all good, green, both apple and darker shades, taupe, or smoke color, which is a brownish gray, three or four shades of brown and blues in all the tones

More beautiful than the Henriettas, because more lustrous, are the coleen pop- water, one quart vinegar, one cup salt, lins. seasons, but were never before shown in such a bewildering variety of beautiful colors. There are plum and prune shades, for the matron, greens in every con- one inch in diameter, and place in two ceivable tone from the very darkest to quarts cans, with a few sprigs of dill the lightest, mandarin, a pumpkin yellow, maroon and other shades of red, Manitoulin blue, Alice blue, electric blue, hquid comes to a boil pour over the cu-in fact every sort of blue, and one per- cumbers and seal. Ready for use in two fectly ravishing color exactly like cloth of gold. In fact, the poplin looks like a piece of cloth of gold, and has the advantage of heing only \$1.50 a yard.

Heavy double-faced goods, whip cords and diagonals are seen for suits and coats. These coatings run as high as \$4 a yard, but as three yards will make coat of the length worn this season, the garment would not be so very expensive if made at home. And with the easily followed patterns we have nowadays, there is no reason why any woman should not make her own coat. The pattern shown in The Farmer of September 28, No. 7564, would be stunning made up in some of the season's coatings. Gray is very good in these rough goods, a heavy diagonal cloth with a thick fuzz almost like eiderdown is especially smart. There is a beautiful cloth plaided with stripes of green, and flecked with tufts of gray and golden brown which would make a stunning coat for dressy wear. More serviceable are the dark browns and taupes, with plaid on the under side. These are the double-faced goods which may be made reversible.

For the woman who considers beauty above utility the shops are showing coats of white chinchilla. As these soil so easily it would not be advisable for the woman who can not spend much for cleaning to buy one. But they are certainly very becoming and quite new They are the season's length, about 18 inches above the bottom of the skirt and cut on English lines. They are much worn by young girls, while for the older woman coats of velvet are supplanting the plush ones, probably because they cost more. But they wear better than a cheap plush, and look much smarter. The most beautiful velvets are shown for them, in taupe, prune, wistaria, French blue, brown, copper, navy blue and mandarin. The coating velvet is shown in 42 and 44-inch widths and sells for \$3.50 and \$4.50 the yard, three yards and threequarters to four yards being sold for a coat. There are velvets that sell for \$10 the yard, but these are only to be

cut so deep that the back may be seen

They are in plum, Manitoulin blue, the new blue of the Have you noticed how Henrietta season, is named for the bluebells of

Wistaria, taupe, copper, American and crepe de chenes, which are the popold-fashioned brocades are seen again this year, and are especially good in

HUMAN WELFARE QUERIES.

Dill Pickles. Household Editor:-I saw several reci-

pes in a recent issue of the Michigan Farmer for dill pickles. All are different from mine, which I imagine I like the best, and is as follows: Four quarts of These have been good for several lump of alum large as a hickory nut. Place all together in stew kettle on stove to come to a boil. Wash and cut in half medium-sized cucumbers, not less than among them. Add one level teaspoon of black pepper for each quart. When the cumbers and seal. Ready for use in two wecks. I enjoy the Michigan Farmer, especially the household page.-Mrs. E B. C., Mt. Pleasant.

Elderberry Wine. Pour eight quarts of boiling water over 16 quarts of elderberries. Let stand 12 hours, stirring now and then. Strain, press out all the juice and then to every four quarts of juice add three pounds of sugar, one ounce of cinnamon and onehalf ounce of ground cloves. Let this boil five minutes then set away in a stone jar in a warm place with a cloth thrown over the top, to ferment for three weeks. Draw off carefully so as not to disturb the settlings, bottle and seal.

I have no recipe for grape wine nor for canning wild grapes and elderberries together. Several recipes for canning elderberries alone have been printed, and I should think you might use any of these, putting half grape and half berries.

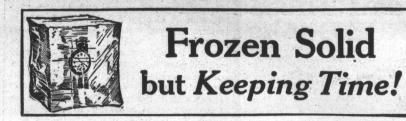
Tomato Soup Curdles. Household Editor:—How can I make tomato soup without having the milk curdle? What is the best way to clean varnished woodwork from fly specks?— Mrs. M. N.

I make tomato soup this way and have never had the milk curdle: Put the tomatoes in a granite stewpan with a level teaspoon of salt and cook until they begin to disintegrate. Then add a half-teaspoon, level, of soda and boil for three or four minutes, when put through the puree strainer. Scald the milk and add just before serving. I usually make a white sauce of the milk as we like the soup a little thick. If you always sweeten the tomatoes with soda and scald the milk before combining, I can see no reason why the soup should curdle. Some authorities on cookery claim that if tomatoes need soda they have begun to spoil, but my experience out this theory.

When doors, drawers, etc., stick and refuse to move, rub them with a cake of paraffin. This will not get gummy in time, as soap will.-Mrs. S.

Who Can Send Quilt Patterns?

thought about in dreams. So soft is the texture and so exquisite the colorings that an artist would rave about them. Small wonder, then, that frail woman would almost go hungry to possess a coat of such cloth. Corduroys are even better than last year for utility wear. They are shown in what is called, hollow cut, with the Household Editor:---Will someone please tell me how to make Irish crochet ja-bots, with which velvet or ribbon is used? --D, F.



Every adjusted South Bend Watch will stand the famous South Bend "ice test," that is, keep time even when frozen solid in a cake of ice.

You want a watch that will do this, for such a watch will be accurate in your pocket-especially if it gets the jeweler's regulation which every South Bend Watch does get.

Every SOUTH BEND WATCH is given expert regulation to the buyer's personality by an expert SOUTH-BEND-JEWELER. We will not sell watches through any other channel than the expert retail jeweler, for the very reason that we want our watches to get this personal regulation.



You cannot buy a South Bend Watch by mail. You cannot buy it of a jeweler that isn't an expert. You cannot buy a poor South Bend Watch.

All this care to give you a good watch is taken after the watch leaves the factory. More care is taken in the factory.

Every "South Bend" is six months in the course of construction and is sometimes six months more under factory regulation. Every watch is inspected 411 times and every watch must run accurately for 700 hours before it is good enough to get the name "South Bend."



Frozen Solid

A watch so carefully made in the factory and so earefully regulated after you buy it will keep perfect time for you for a lifetime.

Ask your jeweler about this. Write for the free book,"How Good Watches Are Made." It tells all about watches. Read this letter from an enthusiastic owner:

Foss, Ark., July 2d, 1912. South Bend Watch Company, South Bend, Ind. Gentlemen: I carry one of your watches; it is a perfect timepiece so far. I have only had it two months. She sure is a dandy. I am per-fectly satisfied with it. It is the best I ever carried. Yours truly. J. F. CRABE. J. F. CRABB.

The South Bend Watch Company 11 Market Street, Street, South Bend, Ind.



(107)

Wright's Spring Needle Ribbed Underwear is knitted on machines that give it wonder-ful elasticity. The fabric stretches to fit the body perfectly and give perfect freedom of action. It always holds its knitted shape-wear and the laundry cannot knock it out of it.

Vour dealer can show you Wright's Spring Needle Ribbed Under-wear-in all fabrics-separate garments or union suits with the locod write with the

know it by this label: RIBBED UNDERWEAR

WRIGHT'S HEALTH UNDERWEAR CO. **75 Franklin St., New York**



THE STEEL MANTLE LIGHT CO. 4 Huron Street _____ Toledo, Ohi

spiration is absorbed and carried

away, leaving the skin dry, thus

removing the most common cause

of colds, pneumonia and rheuma-

tism. The fabric is elastic knitted so

it fits perfectly and holds its shape.

Sew Anything THE AWL COD \$100

NOV. 2, 1912.

WHY WOMAN SUFFRAGE?

Dear Deborah:-Though I half believe you stood where you did on "The Suffrage Plank" simply to stir some of us up, still a few women may take you in earnest so I wish to take up very briefly a few statements you give for not being an active advocate of equal suffrage, and consider them. 1. Of course, "married women with no

children, married women whose children have grown up, and spinsters," are main-ly "leaders" in this movement for all women! Why not? Would we women be worthy of a part in public homekeeping if we had not first of all at heart the duty which lies learest? That is one beauty about it all. The women who are out in the field are those women whose children have gone from the home nest and who are still seeking to follow them with their protection and interest. They are also women of means from protected homes who seek to help those less fortunate women whose conditions of living are heavy. The mothers with children still elinging to their skirts are mostly at home, but many of them are giving sympathetic help from that home circle as they are able through their daily contact with people. It is said that in Seattle probably not 100 women worked publicly for suffrage and yet at the first election an overwhelming number of women voted. The few who can, work in behalf of the many who can't.

And "spinsters?" Well I plead guilty to the belief that if anybody should go outside the home to work for this cause, it is the spinster! Since the day when, a few months, ago, I had an arrest of thought upon this subject, as a spinster I have felt it incumbent upon me to do all that I can, not for myself alone, but for the hundreds of indivioual women who cannot go out from home but who need and want this co-partnership in the larger housekeeping of the community. More than being guilty of being a spinster. I am one of the 100,302 Michigan women who pay a share toward the support of the state without having any word as to who shall spend or squander that money. I am also one of nearly 8,000,000 women in this country who earn their own living and am interested with them in conditions under which we, together with many children from our homes, work in offices, stores, factories and upon farms. I am country-born and bred and have seen boys and girls by scores leave country homes to plunge into Detroit and other large cities. When I read that yes-terday a special coach, with armed guards, left Detroit to take to prison 13 white-slavers who were convicted in that city, where it is boasted that "life is worth living," I naturally thought of those country girls who have gone to the city. Do you wonder that I wished that their mothers had some powerful relation to the laws that now aim only to "regulate" the conditions that foster traffic in young womanhood? More than this, I am one of tuousands of "maiden aunties" who have had a responsible part in the care and rearing of motherless children and have learned thereby something of how quickly a boy can slip his homemoorings when he bestrides a bicycle and goes to school; and can dimly guess, with a wordless horror, the agony of those mothers who see their daughters, almost at their doors, made the victims of such atrocities as befell little Martha Reis a few days ago in Detroit.

2. You marveled at the personal top-ics discussed at the suffragists' tea which you attended. Did it not occur to you that these women had no incentive, through responsibility to discuss the relation of "Schedule K" to Johnnie's new overcoat; or of Detroit's pitiable civic scandal to the cost of a car ticket? They talked of baby's teeth and of husband's favorite meat because these are things to which they hold themselves directly But do you for a moment suprelated. pose these women would not intelligently follow baby and husband into wider fields just as soon as circumstances led them to recognize their woman's relation to those fields?

3. You do well to so frankly say that you suspect a possible relation exists between woman suffrage and the high cost of living; and if you will follow the same line of reasoning further, it will lead you into further conviction.

4. Because of these plain facts and 4. Because of these plain facts and others, in behalf of women who would like to try to help women who are our "sisters" in all the dearness and large-ness of that term—can't you say, next Tuesday morning, "John, if you cannot vote for the woman's amendment today, won't you please not vote against it?" JENNIE BUELL.



Only \$1400 Cash Needed

And fruit—for this is the home of fruit -it makes fortunes every year.

Go out and investigate. The Santa Fe sells round-trip homeseekers' tickets to California and elsewhere in the Southwest on the first and third Tuesday of each month—only \$65 from chicago. Write to day for our two books, "The San Joaquin Valley" and "What California Means For You"-Both free. Just send a postcard to

C. L. SEAGRAVES, General Colonization Agent, A. T. & S. F. Ry., 2427 Railway, Exchange, Chicago

Only \$1400 Cash Needed 188 Acres, 12 Cows, Machinery. The dairy farms of Delaware County, N. Y., earn \$4,000,000 yearly; this is one of them, and the doubled, by smooth fields cutting 30 tons hay, can be doubled, by oords wood, 100 harrels apples in season; 2-story 7-room house, barr 40x40, other cutbuildings; near neighbors, school, plesant drive to railroad and market; owner mable to care for it longer, must retire; it faken not he includes 12 cows, brood sow, 5 sheep, machinery and tools; only \$3500, very easy terms; this farm will pay for itself in two years; read all about it and traveling directions to see it and a 124-acre farm for \$400, page 58, "Btrout's Farm Ostalogue, S.," Endour FARM AGENOY, Union Bank Bidg., Pittsburg, Pa.

100 Quarter Sections in Meade County, Kansas.

have the exclusive sale of this land, owned by THE WILSON LAND & GRAIN CO., on main line Rock Island R. R., in banner WHEAT and ALFALFA district of SOUTHWEST KANSAS. Some of this land for sale as low as \$25 an acre. depending on improvements. Easy terms, long time. Write for FREE BOOK LET AND MAP showing conditions of crops in EACH COUNTY in Kansas, terms, excursion rates, etc.

Agents Wanted, B. H. TALLMADGE, TOPEKA, . . KANSAS.



Realizing the importance to our readers of reliable market quotations we spare no trouble or expense to insure the correctness of the quotations in our col-umns. Special representatives at all leading market centers insure the subscriber accurate market reports, unin-fluenced by any factor of trade. All quotations are correct for the dates on which they are made.

DETROIT WHOLESALE MARKETS. October 30, 1912.

Grains and Seeds.

Grains and Seeds. Wheat.—This market continues about steady with a week ago. Prices in Am-erica are largely controlled by political conditions in Europe and the heavy re-ceipts from the great American wheat growing section. The war situation in the Balkans is watched very closely and on Tuesday it wasreported that owners of English ships refused to permit their vessels to carry wheat from the Black Sea district because of fear that the Dardanneles would be closed. This news helped the bulls. Prices, however, were held steady by the heavy receipts at leading, wheat markets in this country and Canada. Late reports indiacte also that the grading of wheat shows better quality than was at first expected. The international crop report further indi-cates a general harvest that is 7.2 per cent greater than the crop of 1911. Flour is in good demand. One year ago the price for No. 2 red wheat was 96% per bu. Quotations are as follows: No. 2 No. 1 Red. White, Dec. May.

Wednesday ..1.09½ 1.08½ 1.11 1.15¼ 27c Corn.—Corn rules a fraction higher than at the close of last week. This was ac-to complished in face of a report that the greater than that produced a year ago. What we have a start of the start of the start of the start to full the start of the

	Corn.	Yellow.
Thursday	651/2	
Friday		68
Saturday	651/2	68
Monday	651/2	68
Tuesday	65	68
Wednesday	631/2	66
Oats.—This market though the internation dicates an increase o the yield of this year's with that of a year a membered that there	hal crop re f 20.7 per s crop as c go, it mus	cent in compared t be re-
to refill and that las		

small. The price for standard oat	ts one
year ago was 49c per bu. Quotatio	ns for
the past week are:	
Standard.	Oct.
Thursday 361/2	351/2
Friday 361/2	351/2
Saturday 361/2	351/2
Monday 361/2	351/2
D	9517

Wednesday 35 1/2 Beans.—Prices have fluctuated this past week with cash beans showing a ten-dency downward. Farmers are not offer-ing beans freely as yet because of a lack of time. There will be a considerable percentage of poor beans, although some sections of the state report a good yield. Outdations are:

of this show houng although some	wheat, \$6.50@7; oat, \$6.50@7.	-
percentage of poor beans, although some		8
sections of the state report a good yield.	New York.	Ċ
Quotations are:	Butter Best grade is easier with oth-	r
Cash. Nov.	an hinda atondar Quotationa ano: Extra	
Thursday\$2.50 \$2.30	211/or fingt anony 200	
Friday 2.45 2.30	creamery, 31½c; first creamery, 29@	0
Saturday	30½c; seconds, 27@28c; process extra,	2
Monday 2.50 2.25	$27\frac{1}{2}(0)28c$ per 10.	1
monday	EggsThe better offerings are ad-	0
Tuesday	vanced with market very firm. Fresh	f
Weallesday	gathered extras are quoted at 33@36c;	8
Clover Seed There is a fair move-	extra firsts, 29@32c; firsts, 25@28c; west-	
ment of clover seed considering the small		f
harvest. Prices remain about the same		ł
as a week ago. Quotations are as fol-	spring turkeys weaker. Fresh killed	F
	western chicks are quoted at 12@19c;	5
lows:	western chicks are quoted at 120/190,	0
	fowls, 15@18c; spring turkeys, 16@18c;	
Thursday\$11.25 \$13.00	old turkeys, 16@17c per lb.	a
Friday 11.25 13.00	······································	
Saturday 11.25 13.00	Elgin.	t

				Oct.	TIDILC.
Thursday				\$11.25	\$13.00
Friday					13.00
Saturday				11.25	13.00
Monday				11.25	13.00
Tuesday .					13.00
Wednesday				11.00	13.00
RyeRy	e va	lues	have	advan	ced. Up
until Tues	day	the	quota	tions	were 4c

Rye.—Rye values have advanced. Up until Tuesday the quotations were 4c above that of a week ago when a decline of 2c occurred. The market is not active. No. 2 rye is quoted at 76c per bu. Flour, Feed, Potatoes, Etc. Flour.—The market is active with all creates theady

THE MICHIGAN FARMER.

Grapes.—In 10-lb. baskets: Delewares, Grapes.—In 10-lb. baskets: Delewares, 30c; Niagaras, 25@30c; Concords, 30c; Catawbas, 20@25c.
Honey.—Choice to fancy comb, 15@16c per lb; amber, 12@13c.
Onions.—Per bu., 65c; per sack, \$1.25. Cabbage.—\$1@1.25 per bbl.

OTHER MARKETS.

emand. One year ago the 2 red wheat was 96%c per ns are as follows: No. 2 No. 1 Red. White. Dec. May. 1.10% 1.09% 1.12% 1.16% 1.10% 1.09% 1.12% 1.16% 1.10% 1.09% 1.12% 1.16% 1.10% 1.09% 1.12% 1.16% 1.10% 1.09% 1.12% 1.16% 1.10% 1.09% 1.12% 1.16% 1.10% 1.09% 1.12% 1.16% 1.10% 1.09% 1.12% 1.16% 1.10% 1.09% 1.12% 1.16% 1.10% 1.09% 1.12% 1.16% 1.10% 1.09% 1.12% 1.16% 1.10% 1.09% 1.12% 1.16% 1.00% 1.09% 1.12% 1.16% 1.00% 1.09% 1.12% 1.16% 1.00% 1.09% 1.12% 1.16% 1.00% 1.09% 1.12% 1.16% 1.00% 1.09% 1.12% 1.16% 1.00% 1.09% 1.12% 1.16% 1.00% 1.08% 1.11 1.15% rules a fraction higher than of last week. This was ac-face of a report that the that produced a year ago. e of live stock and its scar-raging feeders and farmers liberally. Then, too, much an crop is of inferior qual-

92½c; May, 97½c. Corn.—No. 3, 61@63c; Dec., 52½c; May, Gat. Oats.—No. 2 white, 33¾@34½c; Dec., 32½c; May, 34¼c. Butter.—Steady, with prices and con-ditions practically unchanged. Quota-ever, pursu: 22½@27c. 22½@27c. 22½@27c. Quotations: Firsts, 24½@29c; dairies, pursu: 22½@27c. Quotations: Firsts, 24c; ordinary firsts, the fairly liberal receipts at steady prices, hare the fairly liberal receipts at steady prices, pound. Poultry.—Live, easy. Chickens, 10@11c pound. Poultry.—Live, easy. Chickens, 10@11c sources, steady. Chickens, 13½@14c; ber lb; springs, 13c; turkeys, 12@17c, grass pressed, steady. Chickens, 13½@14c; better slight decline; red kidneys, unchanged. Potatoes.—Receipts somewhat lighter this week and moving well at a 2@3c advance. Now quoted as follows: Mich-sigan, 42@45c per bu; Minnesota, 40@43c; Wisconsin, 40@45c. Hay and Straw.—Timothy hay, \$1@2 lower. Quotations: Timothy, choice, \$1 mixed, \$13@15; clover, \$8@13; No. 2 and No. \$350@20; No. 1, \$16@18; No. 2 and No. \$350@7. New York. New York. Palation Data 2000 Palation Data 2007 Palation Data 2007 Palation New York. Palation New York. Palation Pala

Elgin. Butter.—Market firm at 29c per lb., which is last week's quotation.

THE LIVE STOCK MARKETS.

Buffalo. October 28, 1912.

Chicago. October 28, 1912. Cattle. Hogs. Sheep. Received today24,000 40,000 45,000 Same day last year. 23,126 29,825 53,886 Received last week. 61,755 133,063 196,906 Same week last year. 85.739 144,528 209,798 The Monday run of cattle looks pretty large for these days. the receipts em-bracing about 6,000 from western ranges. The best beeves were firm, and other lots that graded well sold at steady prices, but buyers were biading lower for other kinds, the outlook being for a further limited decline. An Iowa stockman brought in 17 prime 1,593-1b, steers that sold at \$11, and a sale was made of a consignment of prime Canadian range steers at \$10. Hogs took a toboggan slide, dropping at least 15@25c, with sales at \$7.50@8.30, and provisions followed with a sensational decline. Hogs mar-keted bare last week averaged 282 hs

27: for fresh esgs and 28: for No. 1 data
 27: for fresh esgs and 28: for No. 1 data
 27: for fresh esgs and 28: for No. 1 data
 28: basks. Demaind is light for red kindmy
 29: basks. Demaind is light for red kindmy
 29: and 20: rest. 10
 29: and 20: rest. 10
 29: and 20: rest. 10
 20: and 34: rest. 10
 21: an ark, 10
 21: an ark, 23: rest. 10
 22: an ark, 23: rest. 24: gas. 10
 22: an ark, 24: gas. 10
 23: an ark, 24: gas. 10
 24: an ark, 24: gas. 10

they were bullish a short time previous, abandoned. These consignments are us-with reductions of as much as 15c per ually resold for feeders and make second 100 lbs, in a single day and large accum- trips to the country.

<page-header><section-header><text><text><text><text><text><text><text><text><text><text><text><text><text>

the top price comparing with a top at \$9.42½ not long ago. Sheep and lambs were received in greatly increased numbers last week, as was anticipated, the liberal advances in prices brought about a week earlier on the reduced supplies, especially of range flocks, tending to start large supplies from feeding districts for market. The general demand failed to increase suffi-ciently to absorb the liberal offerings promptly, and sellers were compelled to submit to large reductions in prices in order to effect sales, even the choicest flocks of lambs and sheep going off in values along with the other kinds, Feed-ers were in extremely large demand and held up in price when everything else was declining, large numbers of feeder lambs and yearlings being shipped out. Unfor-tunately, numerous consignments of warmed-up lambs were returned to mar-ket after feeding on weeds for a few weeks, being no better than when first sent out, and most of them were reship-ped to feeding districts. There is no money in such business, yet it is done every fall. When the week closed lambs sold mostly 50@75c lower and sheep most-ly 50c lower than a week earlier. Lambs closed at \$5.75.04.75, ewes at \$2.750 wethers at \$4.2504.75, ewes at \$2.750 \$5.00, wethers at \$3.6504.35 and ewees at \$5.03.50. Horses were in only fairly large de-mand last week, there being no big at-



THIS IS THE LAST EDITION.

In the first edition the Detroit Live stock markets are reports of last week; all other markets are right up to date. Thursday's Detroit Live Stock markets are given in the last edition. The first edition is mailed Thursday, the last edi-tion Friday morning. The first edition is mailed to those who care more to get the paper early than they do for Thursday's Detroit Live Stock market report. You may have any edition desired. Subscrib-ers may change from one edition to an-other by dropping us a card to that effect.

DETROIT LIVE STOCK MARKETS.

Thursday's Market. October 31, 1912.

Cattle.

Cattle. Receipts, 1,574. Market steady at last week's prices. We quote: Extra dry-fed steers, \$8; steers and heifers, 1,000 to 1,200, \$6.50@7; do. 800 to 1,000, \$5.25@6; grass steers and heifers that are fat, 800 to 1,000, \$5.25@6; do. 500 to 700, \$4.25@5; choice fat cows, \$5@5.50; good do., \$4@4.50; common do., \$5.50@3.75; canners, \$2.50@3; choice heavy bufls, \$5@5.25; fair to good bolognas, bulls \$4.50@4.75; stock bulls, \$4@4.25; choice feeding steers, 800 to 1,000, \$5.50@6.25; fair do., 800 to 700, \$4.75@4.25; choice stockers, 500 to 700, \$4.75@4.75; milkers, large, young, medium age, \$40@65; common milkers, \$25@5.

<text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text>

Veal Caives. Receipts, 577. Market steady at last week's prices. Few extra good, \$9.50; good, \$8@9; common, \$4@7.50; milch cows

and springers steady. Bishop, B. & H. sold McGuire 1 weigh-ing 130 at \$8.50, 3 av 150 at \$9, 9 av 150 150

at \$8.25, 7 av 155 at \$9; to Goose 4 av 250 at \$4.50, 2 av 145 at \$6, 1 weighing 150 at \$9; to Parker, W. & Co, 6 av 150 at \$9, 9 av 160 at \$9; to McGuire 6 av 140 at \$9; to Hammond, S. & Co, 3 av 110 at \$7.75, 6 av 130 at \$8, 11 av 160 at \$8.50; to Newton E. Co, 1 weighing 120 at \$7, 3 av 160 at \$9, 1 weighing 145 at \$9, 2 av 115 at \$8, 3 av 170 at \$9, 1 weighing 180 at \$9.50, 5 av 155 at \$9, 7 av 150 at \$9; to Thompson Bros. 4 av 135 at \$9, 4 av 160 at \$9; to Parker, W. & Co, 5 av 145 at \$9, 21 av 135 at \$8, 8 av 150 at \$8.75. Sharp sold Mich. E. Co, 22 av 150 at \$8.50. \$8.50.

Sheep and Lambs.

Receipts, 7,212. Lambs 25c lower than last week; sheep steady. Best lambs, \$6.25@6.50; fair to good lambs, \$5.50@5.75; light to common lambs, \$4.25@5; fair to good sheep, \$3@3.65; culls and common, \$2.99 75 \$2@2.75.

light to common lambs, \$4.25%5; fair to good sheep, \$3%3.65; culls and common, \$2%2.75. Spicer & R. sold Nagle P. Co. 92 lambs av 75 at \$6.25; to Hayes 11 do av 50 at \$5.35, 6 sheep av 70 at \$2.50. Bishop, B. & H. sold Newton B. Co. 13 lambs av 55 at \$6, 17 do av 75 at \$6; to Hayes 42 do av 60 at \$5.40; to Parker, W. & Co. 47 do av 48 at \$4, 19 do av 68 at \$6, \$2 do av 52 at \$4.75, 181 do av 70 at \$6.25; to Hayes 38 do av 50 at \$5.25; to Haymond, S. & Co. 98 sheep av 115 at \$5.35, 4 she av \$5 at \$4.55 do av 125 at \$5.25; to Hayes 38 do av 50 at \$6.5; to Hammond, S. & Co. 98 sheep av 115 at \$2.50, 48 do av \$5 at \$2.10, 45 do av 125 at \$2.50, 17 yearlings av 86 at \$4.56; co Nagle P. Co. 182 lambs av 73 at \$6.25; 51 Hammond, S. & Co. 144 do av 67 at \$6, 126 do av 75 at \$6.25; 49 do av 50 at \$5.25, 44 sheep av 100 at \$2.25; to Nil-van P. Co. 45 lambs av 70 at \$6.25, 21 do av 73 at \$6.10; to Youngs 46 sheep av 105 at \$2.51; 18 do av 50 at \$5.25; to Mid-van P. Co. 45 lambs av 70 at \$6.25, 21 do av 73 at \$6.10; to Youngs 46 sheep av 105 at \$2.55; 18 do av 50 at \$5.25; 18 do av 70 at \$5.75, 38 do av 50 at \$5.25; 18 do av 70 at \$6; to Thompson Bros. 49 sheep av 95 at \$3; to Fitzpatrick Bros. 69 lambs av 70 at \$6.25; 25 do av 75 at \$5.75, 31 sheep av 95 at \$3.50; to Futapatrick Bros. 12 weth-ers av 95 at \$3.55; to Youngs 53 do av 90 at \$2.25; to Fitzpatrick Bros. 12 weth-ers av 95 at \$3.55; to Youngs 53 do av 90 at \$2.55; fs lambs av 80 at \$6.25. Carmody sold Newton B. Co. 3 sheep av 90 at \$3.26 lambs av 80 at \$6.10. Taggart sold Mich. B. Co. 121 lambs av 70 at \$6.35, 57 sheep av 80 at \$6.10. Taggart sold Hammond, S. & Co. 25 sheep av 104 at \$3.65; 10 do av 106 at \$2.50, 40 tambs av 70 at \$6.25. Hogs. Receipts, 4,775. Market dull and 90C@





PATENTS that PAY BEST

R. S. & A. B. Lacey, Dept. 89, Washington, D. C.

(Book Rights Reserved by the Author.)

(Book Rights Reserved) Synopsis of Preceding Chapters.—Na-thaniel Edgeworth, eccentric, hard-head-ed and well-to-do, is passing his declin-ing years upon his 400-acre farm on the outskirts of the vilage of Turtle Creek. His household consists of Mother Hub-bard, housekeeper, and Brigadier Gen-eral (by courtesy) Hornbill, a fellow vet-eran; Zeb Wattles, an aged musician who, with his daughter Jerusha, occupies a cottage (rent free) upon the farm, also spends much time with his venerable benefactor. Estrangement, and finally death, robbed Nathaniel of his only son some years previous, following which, bitter remorse induced him to grant the means of a liberal education to his sole descendant and grandson, Sidney Edge-worth. In like manner he had befriend-ed his sister's adopted daughter, Susan punlap. The story opens with Susan's return from boarding school and her full appreciation of quiet Turtle Creek as she inversit from her own motor car. Sid-ney Edgeworth has completed his course at Harvard and rented an expensive appreciation of quiet Turtle Creek as she inversely as his grandfather's allowands of sone years of a position as diligently and sincerely as his grandfather's allowands of bostacles encountered are two college humes.—Doodle, a typical case of "more money than brains," and Jim, of an al-top further sort, who has found a the signification. On their assembling his dis's quarters in the early morning hey find a telegram announcing the big city is made the excuse for an al-pin Sid's quarter hornbila burst a blow Creek, who, in a heated argument with Brigadier General Hornbill burst a bloodvessel and immediately passed away.

All were conscious of the clock, ticking All were conscious of the clock, ticking "Quit yer shovin'!" exclaimed Bud, breathlessly, staring at the modishly else, ticking dully deep down within them.

together with an effort and stepped soft- "Got anything to do up to the Edge-ly to where Sid sat, slumped in his chair, worth's, Bud?" head down.

"I'm sorry, Sid, old man," he said, putting out his hand. "We've been a bunch of fools."

Doodle came quickly to his side and funeral ain't till tomorrer." pressed the limp hand Jim had dropped. "Hope he don't come to life in the "It's a shame, Sid," his voice was meantime," grunted Ed. harsh and he trembled with earnestness, we're a crowd of cads."

Sid did not look up. "I suppose you'll go out there-tomor-row?" asked Jim awkwardly.

"Yes," answered Sid, "I suppose I will. But don't you fellows worry about that -that fool letter. It was my fault. I'm worse than a cad. He's supported me, and I've been ungrateful and I-I'm sorry, too.

He went to the door with them, and in silent parting.

Chapter III .- "Where There's a Will-" hapter III.—"Where There's a Will—" "Aw gwan," doubted Bud, "I guess ye Quite the most forlorn and deserted didn't like it 'cause he bought Zimmerspot in Turtle Creek was the railroad station. Every atom of moisture had been sucked up from the long platform; even the fire barrel in the one shady corner, under the blistery eaves of the station itself, had been attacked and was only half full of warm, muggy water, supporting a thick and populous scum.

A bare-foot boy picked his way the length of the platform, his manner that of a maiden lady crossing a muddy corner. The hard, dry, gritty boards blis- this mornin' only." tered even through his callouses and he He tetered to his feet and creaked trio of open mouths, "which of you gen-walked gingerly, like a cat that has just across to the ticket window, slammed it llemen will attend to my baggage? Pve jumped onto a red-hot stove and off shut, locked the office door, glanced at a trunk coming. There's some way of again. Once he stopped, twisted a forceful "Gee!" from his tight little mouth, form. lifted a tanned leg and carefully inspected the sole of his foot, hopping about on the other to maintain his balance and it swirls of dust and cinders. It labored keep from being burned. With Spartan and wheezed into the station; the bagcourage he jerked out a black splinter, gageman leaned out from his car and dusted off several cinders deeply imbed- handed Bud his bundles of Bayview Bugle ded in the thick skin, and continued on and Pike County Vigilant, for delivery. his way, imitating the manner of a pro- Hermann gave the baggageman an exfessional rope-walker.

stood on one foot on a shady board, idly engine was making up its mind to go forgotten what street it's on, but prob-picking at a blister in the dizzily red along: "Hot, ain't it?" paint on the warped door.

"Hello, Bud!" came a lazy voice from within, a voice evidently with a bandana the train was getting under way, then to the house?" about its red throat, and a newspaper turned with one impulse to start for the for a fan.

it," answered the youngster, hopping to the jaws of both hang down in blank the cooler door-sill and rubbing the mud- bewilderment. dy mixture on his face well in with a ripped shirt sleeve.

people in the world that blistering Au- over to Herman, gaped at the show and is? Why, there ain't anybody in Pike gust day. There wasn't the slightest remarked with a leer: "Who's your lady county that don't know that!" exclaimed sound, beside droning bees and rasping friend?" "You can almost sout the crickets.

"Well, I see yuh're on time for the 12:32," remarked the same tired, bandana-throated voice. It really belonged to the station agent, sweltering in the corner on his glass-footed chair by the came nearer the track and, as the eddy telegraph key, but it seemed a detached of wind and motes raced by, an eager thing, hovering about in space, fearing edge of the whirlpool reached out and the exertion of addressing anybody directly. The boy squinted up at the dusty-faced

clock, ticking laboredly as though it, too, along on its rim like an animated platter were overcome by the heat. "Yep, on time," he answered, dropping

on the hard, dry bench in the waiting-room, "it's only five minutes past one."

Even words crisped and curled up at the edges as they were uttered that day, and conversation naturally languished. The village lounger, Ed Humphrey, poked his bibulous nose and seeking eye in

"Wish I had a drink of somethin' coolin'," remarked Herman, the station staggering from side to side, crazily, like agent, nodding to the newcomer with an a drunken man. effort which squeezed three drops of perspiration from the bandana at his ing after the hat. Hermann, the spell

So do I," said the other fer-"Gee! vently, a moist expression springing to can he?" his lips and his eyes glowing dry.

Conversation again lapsed as Ed shovconversation again lapsed as Ed shov- enough; they're cut foreign. Prob'ly a ed Bud over into the sun glaring through Frenchman!" the dusty window and took the less torrid corner seat.

Ed Humphrey paid no attention; but Herman looked at the discomfited youth yuh've heard of 'em, haven't-A minute passed. Jim pulled himself for a steady minute and then remarked:

"I got a chanct to earn a dime takin" over some flowers from the Dunlaps." "Lots of flowers, I suppose?" "Good many. But it's too early, the

"Mean cuss, wa'ant he?" Herman agreed phiegmatically.

"He kep' me from honest work," said Ed, with as much feeling as a man of his class can muster without filling his glass again.

"How's that?" "Gave me a job managin' a crew weed-

in' his beets one year. Wouldn't let me have nothin' cool to drink but water. Made me stand in the sun an' just keep them fellers to work. I got knocked out. each pressed Sid's hand firmly, sincerely, Haven't been able to do much since. It's in silent parting. a darn small bunch of pigweed I'll be puttin' on Nathaniel Edgeworth's coffin."

> man's pool room an' changed it into a milk depot an' you didn't have no-" he stopped abruptly, cocked his ear and listened intently for a moment, then broke off, "Ain't that her?" "That's her," replied Herman, dropping

> forward on his chair and shoving together a few messy bills of lading. 'S'pose that funeral of old Edgeworth's'll be givin' me a lot of work to do. I had two telegrams from relatives and such

> the clock, and followed Bud to the plat-

The 12:32 was undoubtedly arriving, pushing ahead of it and dragging behind Hermann gave the baggageman an ex- trunk'll be in on the night train? press package, took a few receipts in ex- didn't come now. Where's it goin'?" At the station entrance he stopped and change, and then remarked, while the

Hermann and Bud stood together as station. But neither moved a step. Not baggage carrying job. "Hello yourself an' see how you like a rod away stood something which made

Ed Humphrey was taking in the spectacle, as well, from the shade of the sta-These might have been the last two tion door. Recovering first, he lounged

snickered and Hermann would have laughed, only at that moment "the specdropped its bags and boxes and tacle" stepped toward him. As the little trio huddled together lone-

somely and awaited the stranger's approach the last car rushed by, picking up tag-ends of air and dust and getting. quite a respectable following by sucking in everything reachable.

The stranger, in stepping toward Her mann, his mouth question-open, also clutched at the wide-brimmed panama he wore, a gay gray band about it.

A second later the hat was spinning out for a roll. Its owner stood looking after it with only easual interest, as though it had been somebody else' hat, and not a very good one at that.

The dumb little trio swung around to see, it being always worth while to watch a hat spreeing with the wind. As the train gained momentum the suction beat the door a few minutes later. "Hot, ain't it?" he gave the password. but the hat, being heavier than the rest, came more effective and the racing arfinally failed to keep pace and began

Bud relieved the tense situation by racbroken, spoke out of the corner of his mouth to Ed: "Can't be a travelin' man,

"No. His clothes ain't cut stylish

"Maybe he's an Englishman?" "He's smokin' a cigarette,' said Ed,

dressed young fellow. "Maybe he's a gentleman burglar,

Bud came running back with the hat and paused an instant before the pair to whisper, "Aw, I know who he is now, Nathaniel Edgeworth's grandson, he's Sid, come back to the funeral. His ini-tials is in the hat."

"Oh!" exclaimed Herman, turning, and this time finding the young fellow approaching with an easy swing. Running a smooth hand through his light hair, the stranger smiled broadly at Bud and extended a dime in exchange for the hat.

He was a tall youth, a slight social stoop to his shoulders, a somewhat deferential stoop often seen in young college men, usually caused by a flat chest proposed and effected by the cigarette habit -the folks at home attributing it to much bending over books. The black serge suit he wore was smooth and fine and fitted well. He had on a wing collar, like those affected by the men in magazine advertisements, but his was worn just a shade more easily, as though the collar button bothered him not a bit. He looked at home in his clothes. Such a decent black tie he had, too; not heavy -light and summery with a happy little pattern; not dull and sodden as a black tie can be.

There was not a jarring note in his appearance; even the tip of a handkerchief just peeping from the cuff at his wrist, and the little watch strapped just above and tucked well up his sleeve, only an edge showing, seemed quite in place. "I say," he remarked, staring at the

getting it to the house, isn't there? A wheelbarrow or something?". He paused and scanned the unintelli-

gent faces hopelessly. "Of course, there isn't a taxi in town? No, absurd! Taxis are out of the question here."

"Yes, taxes is high; everybody's kickin'," remarked Hermann, bravely jumping into the bramble bush. "Yuh say your It

"To Nathaniel Edgeworth's house, I've "Tarnation hot," was the fervent reply. the county electric light and power company, you know. I wonder how one gets

"Which one?" queried Bud, scenting a

"Oh, any one; you see, I want to get to the house. I've never been in the town but once before and I find I've quite forgotten my way. You don't know where is. I suppose?" it

"Don't know where Edgeworth's house Bud, big-eyed. "You can almost see it It was a fetching bit of humor. Bud right down the road from the bridge







At the World's Greatest School. Winter term opens Dec. 5th. following International Stock Show. Tuition includes four days free admission to the show. Write for free catalog. JONES NATIONAL SOHOOL OF AUCTIONEEHING, Carey M. Jones, Pres., 2574 Washington Blvd., Chicago. Illinois.

WANTED FOR U. S. ARMY-Able-bodied, un-married men, between ages of 15 and 35; citizens of United States, of good character and temperate habite, who can speak, read and write the English language. For information apply to Recrniting United Statemark, Mich., 1st and Saginaw Streets, Fint, Mich., M4 West Main Street, Jackson, Mich., Huron & Quay Streets, Port Huron, Michigan, YOUNG MEN sarn a business that pays a good esting, Whe for particulars. The Michigan State AutoSchool, Dept. F. A. TSelden Ave., Detroit, Mich.

Facts to think of

when you buy your

OF course you get your overcoat for warmth—

but you can get a lot of style and tone, too, if you buy a Clothcraft overcoat at \$10

overcoat.

NOV. 2, 1912.

The Tariff Downwards



Cast your vote for better shirt values at the money you want to pay.

At \$1.00, \$1.50 and up you can be as finely shirted as the fellow who pays half as much more for other makes.

HALLMARK SHIRTS are positively the finest value you can get anywhere in Quality, Style and Fit. They have the distinction of "Class." Besides, they're guaranteed to be fadeless. Endless varieties of styles and colors. All up-to-date.

Ask to see them at any real live Then you'll haberdasher's. know.

Ask also for SLIDEWELL COLLARS. They let your tie slide and save tie, time and temper.

HALL, HARTWELL & CO., TROY, N.Y.



will save your dimes-dimes make dollars. Great novelty. Smallest bank in the world. Can be worn as locket or watch-charm, or carried in pocket. Holds 10 dimes-tenth dime opens it automatically. Just the thing to give for favors at the Christmas dinner. Price, Nickel-plated, 10c; Gold-plated, 25c. Agents, wanted; exclusive carritory. LUCKY HORSE SHOE BANK, Room 832 Flatiron Bidg., New York City.

THE MICHIGAN FARMER.

"Why, yes, thank you." compromising "You're welcome," replied Bud formal- very hidecus.

ly, twisting about to view the pile of luggage.

his mouth and wriggled his nose face- ferent from what he had fancied her. tiously at Herman as the stranger turned to help Bud sort out the pile of bags. He put one finger to his forehead with Homeric simplicity and remarked, rolling his eyes ominously, "Nutty."

bags, dropped them all suddenly and stepped back to where Hermann stood, dripping perspiration, and, introducing his gled back from the churchyard, Sid rid-remark with a nervous clearing of his ing with Old Wattles and Hornbill. throat, remarked, "By the way, I've lost

yuh sure it's gone?" queried Hermann. "Yes, quite. I searched everywhere thought I'd be satisfied if I could only it. I didn't find either."

"Yes," said Hermann politely. "No," said the other, "I found neither.

But you'li attend to that, won't you?" "I'll see what I kin do,' volunteered Herman, "though it's against the rules b deliver anything without a check didn't belong there, he wanted to go-at for it."

"Oh, I can describe the contents. I-I've done it before, you know."

Picking up a hat box and a hand bag, Sid Edgeworth turned to follow Bud, already struggling across the sizzling platform between two travel-tagged, English kit-bags, a pair of field glasses, and a times he started up in bed as though he wicker lunch basket containing two thermos bottles and rations for six.

When they were out of sight down the main street Ed Humphrey moved from his stand for the first time, glanced up Oh, yes, the will; Nathaniel Edgeworth, at Hermann, who still stood staring af- his grandfather's will. He hadn't thought grinned.

doorstep of the old Edgeworth house, sombre and hushed. He thanked Bud genuinely for his mile-long struggle with stayed. the luggage. Bud forgot the heat in an could it interest him, anyway-and then instant when Sid slipped a dollar bill into he'd go, go back, out of this town whose

er, whom Sid remembered vaguely, now Hornbill, whose grieff fangled on his red-eyed and trembly, opened the door nerves; away from the villagers with to him and he entered with a bow, not their crecodile tears, away from the a word passing between them.

nothing to say, only greeting the young there weren't any weeping willow trees fellow with a cold, shivering handclasp stirring restlessly against one's windows and remarking how much Sid's nose was all night. like his grandfather's.

baggage that afternoon. It gave him a silly thing it was for him to wait. He something to do. He stayed in his close, didn't care at all about it. Nathaniei stiffing room, starting at every one of Edgeworth really wasn't anything to the infrequent sounds from below, ap- him anyway. He had finally threshed it parently absorbed in unpacking and re- out and reached that conclusion. He packing his bags.

like. But when he jerked himself from had offered him. He couldn't languish the hazy nullity of his drifting thoughts for another minute in that dread-filled Sid always realized vaguely that he was house. face to face with his future, and he Sid had always placed bunkers between didn't like the look of it.

in which he found himself. He did feel keeping serious things from him. He grieved; he was unnerved whenever he couldn't stand sorrow of any kind. This allowed his thoughts to revert to his weepy business settled like a blight on grandfather's death, which they were him. He could throttle honest old, redconstantly doing. There wasn't a rela- rim-eyed Hornbill, who went slow-footed tive on earth left him now. Yet he about the house, a crooked finger in his could not help recalling a bit bitterly the empty lapel buttonhole, mumbling instruggle his father had made against comprehensible things about "comrade," Nathaniel Edgeworth, Sei had refused him an education, forbidden his derstand." marriage and denied paternal pity during erts, had always been a funereal horror, those long years Nathaniel Junior had with his aged and respectable manner. fought out his battle in Boston, sick and But Hornbill was a thing he had never alone with Sid, his wife having died at even dreamed. Sid's birth. Reconciliation had only taken place shortly before the death of Sid's stuffy front parlor while the few people father.

Then there had been the allowance, and humble. Yes, Nathaniel Edgeworth had tried to tists and writers into a class of congenial young fellows at college.

These thoughts repeated themselves.

The Shirts That Revised there. Will I carry them grips for you, the whole of that frightful following day. The tight little funeral, hard and un-The tight little funeral, hard and un-

Some sympathy was duly offered Sid by the elderly ladies of the community "You can take that one with the two and his few distant relatives, among handles," offered the young fellow. "I them Susan Duniap (who was really no really don't know which handle you relative at all), whom he met for the should carry it by." first time. She was so thoughtful in ofhould carry it by." first time. She was so thoughtful in of-Ed Humphrey swayed forward on his foring her condolence that he seemed toes, plopped his eyes out, screwed up greatly relieved to find her nice, and dif-

Scarce as the sympathy was, Sid was embarrassed by it. Of course, he was sorry his grandfather was dead. It did give him an unaccountable sense of aloneness. But he had never known the In support of this verdict the young man personally and had only the debt of man, having gathered up part of his gratitude for the education given him. He was much relieved when all was over and the pitifully few carriages had strag.

Hornbill had been so affected by the any difference, will it?" a chill to shiver through Sid, and he "Difference? Of course it will. Are avoided him. But Wattles, only more gentle and quiet, Sid found quite compaaionable. He wasn't always referring just before I got off the train. I was to some last act of Nathaniel Edge-looking for my fountain pen, but I worth's, he didn't spend all his time weeping. His presence was restful to scrape up the check while I was about Sid, who couldn't be continually alone; and he missed him that hight when the old fellow hobbled off home.

> Sid wanted to get away. He had hoped to be able to go back to New York next day. His need was compelling, Turtle Creek was no place for him, he once. Through his mind ran incessantly a restless drumming to the rhythm of car wheels. "I want to go, want to go, want to go east again." It seemed like a poem he had read somewhere, and he couldn't get it out of his mind during that restless, endless night. Several shouldn't be there. What was he staying for? He must get away. The room, the air, everything, was so oppressive. What was he staving for?

ter the stranger, and emitted a long, low of its possible contents once since Newt whistle of consternation. Hermann only Plum had informed him, after the funeral, that he must not go back to New Sid Edgeworth stood at last on the York at once; that he must stay and hear the will read at three, next day.

Well, it was next day, and he had He'd hear the will read-how his palm and rang the doorbell. atmosphere stifled him, where he felt so Mother Hubbard, the stout housekeep. foreign and hypocritical; away from sadness of it all, and into his own snug In the partor was Hornbill, who had little chambers at the Johnstone where

He was quite packed and ready long Sid was very glad of his voluminous before three o'clock that afternoon. What didn't want his money. It would all go After supper he sat alone in the cool to Susan Dunlap, anyway. He would be on the porch, his thoughts far away, glad of that. He could go back to New Everything seemed strange and dream-York and take the timekeeper's job Jim

himself and sadness. Recognizing his Beside that, it was a strange position nature his friends had always helped in and Gettyshurg." and "they don't To Sid his own man. Rob-

Sid sat fidgeting with his hat in the interested in the will gathered in, hushed

There were present Sam Dunlap, with make up for it all, with almost foolish his adopted daughter, Susan, (she was generosity-but too late. Still, Sid must the only refreshing bit in the landscape be thankful to him. The allowance had to Sid), Old Wattles, Hornbill, Newt served to jerk him from a poverty-strick- Plum, a severe raw-boned old farmer en bohemian community of insolvent ar- named Aloisious Stimpson, Mother Hubbard, and one or two others.

Newt Plum, as lawyer, read the will. Sid sat listlessly through the preamble, conflicting endlessly in his mind during a juggling of law terms which Newt Plum

compromising, brief and exact, was all From Childhood to Old Age **Kimball Pianos** Are Pleasing in Tone



Mrs. Piano Buyer Before making the pome and children we are sure you will want to see our course when our factory and from various factory distributing our planos direct from our factory and from various factory distributing points. Write us today for **Money Saving Plan and Free Catalogues**

and learn how easily you can secure the GENUINE Kim-ball Plano at factory distributing prices and on terms to suit your convenience. Monthly, quarterly or annual pay-ments can be arranged.

Valuable Features of the Kimball Kimbail Plancs possess many important exclusive features, such as our *hermetically scaled* metal covered pin block -the heart of the plano-impervious to dampness, un-difficted by heat or cold, strings scientifically treated to orevent rusting, and other valuable features that give he Kimbail that *heirloom value* and most splendid mu-tical would be.

Kimball Player-Piano Shipped On Approval There are very few persons who are not lovers of good music. Unfortunately there have been but a limited num-ber that could produce it, but now with a Kimball Player-Plano in the home, the young, the old and even the feelle *isdeor* 'people can play and reproduce the 'Grand Opera'' or play any and all of the old time songs or popular pletcs.
 Our
 Free Approval Test

 Great
 Free Approval Test

 Offer
 We Stand the Freight

 Convenient Payments
 Convenient Payments

 Catalogues and Herald Free
 Old Instruments Taken

 in Exchange
 Statemate Taken
 Cale Fill out the coupon below and send us today and get FREE our hand some booklets and the Musical Herald, containing two prety songs, words and music, also valuable plan o information, our prices and terms. A. A. Smith W.W. KIMBALL COMPANY CHICAGO BUNN BUNN did. 4.00 NST \$10,000,000 WORTH OF Biggest Prices! Best Grading! Cash Quick TRAPPERS GUIDE BDEED **Big Money** FREE in Trapping! Do trapping during sport and PAYS BIG. Muskrat, fox, wolf, byx, white weasel and all kinds of furs are valuable. We buy any quantity. TRAPS To accommodate trap-pers and shippers wo furnish traps-including the fa-mous VICTOR-as factory cost. Largest stock in United States. 120 LARGEST IN THE WORLD lif any car Funsten Animal Bait Guaranteed to increase back. Beware of imitations. Funsten Animal Baits won Grand Prize at World's Fair in 1994. U. S. Government uses Funsten Baits. One can of Funs-ten Animal Bait brought one man in St. Michaels, Alaska, \$1,199 clear profit. Costs only SI a can. Different kinds for different animals. Whether you are an experienced trapper or just a beginner, we can help you catch more furs-make more money. Write today for free Trapper's Guide. Game Laws and Trapper's Supply Oatalog--three books in one-For Market Reports. Funsien Safety Fur Shipping Tags, etc. ALL FREE. (20) Fur Shipping Tags, etc. ALL FREE. (31) Funsten Bros. & Co., 385 Funsten Bidg., St. Louis, Mo. SAVE TOC Callon of PAINT.



WANTED A man or woman, all or spare time, to secur information for us. Experiace not neces sary. Nothing to sell. GOOD PAY. Send stamp for par itculars. Address M. S. 1. A., Indianapoils, Indiana





mouthed affectionately, interspersed with bitter epigrams by Nathaniel Edgeworth. Sid paid no particular attention to the naming of the executors: Sam Dunlap, Newt Plum, and Aloisious Stimpson. But among the series of small bequests which followed he noted that Zeb Wattles was given the deed to his little house and an income for life of ten dollars a month, so he could "scratch along as usual" the will read, in Nathaniel Edgeworth's quaint phrasing, "and never become purse-proud and haughty." To Mother Hubbard was left a cook book and five hundred dollars, with the characteristic explanation from Nathaniel Edgeworth that she was to learn something new in the line of cookery from the book and that the money was to pay for the good materials she invariably wasted and spoiled in trying to master a new dish. Hornbill was given a half interest in

the old Edgeworth house for four years, with a monthly stipend of twenty dollars, to be increased to fifty if he left the house after the four years were up.

After that clause Newt Plum re-adjusted his spectacles, glared fiercely at the bated-breathed audience, rasped his throat and continued: "To my dry grandson, Sidney Edgeworth, I bequeath the remainder of my property, both land and invested securities, on the condition that he reside continuously (with the exception of two weeks in each year) in the old Edgeworth homestead, in which he is hereby given a half interest with Brigadier General Hornbill, for four years, and that he fulfill, within the stated four-year period, one or the other of the following conditions:"" Sid was now sitting up straight in his

chair, mouth open, listening intently, his eyes luminous with wonder. Newt Plum continued: "'That he ac-

quire, by purchase or gift, the deed to that strip of land commonly known as Bramble Hill, lying between the grove on the northeast end of my property and the farm belonging to Sam Dunlap, and

add it to the Edgeworth Estate. "'Or, that he shall accumulate one hundred thousand dollars in rentals and other earnings from the four hundred acres known as Edgeworth Farm, a sole interest to the extent of three thousand dollars a year (the present income of said property) is hereby bequeathed to said Sidney Edgeworth for the period of four years, during which time he shall be sole administrator of said property and the profits therefrom. Should he by any chance make any amount from the land over and above the twelve thousand and less than one hundred thousand, the excess above the twelve thousand allowed him shall revert to the estate.

"In the event that Sidney Edgeworth fails to acquire the Dunlap strip of land or make the four hundred acres (valued at thirty thousand dollars) pay him one hundred thousand dollars, within four years, the entire estate shall revert to Miss Susan Dunlap, adopted daughter of Sam Dunlap, my brother-in-law.'

There was an ominous hush as New! Plum finished. Then there broke out an excited jumble of confused sounds. Evidently the reading had caused a great

Sid sat stunned. He was beginning to see through the clever provisions of that He had even passed over without much thought the necessary four years' residence in Turtle Creek, struck dumb by the seeming impossibility of the staggering task laid out for him.

Old Wattles stepped over and put a hand on the young fellow's shoulder. Sid

"Guess you're to be congratulated," quavered the old fellow.

"Congratulated? How? What?" cried Sid. "You don't think I could ever make this land pay a hundred thousand dollars in four years, when it pays only three thousand a year now?"

"Dehaw! Not That's just your grand father's little joke, he's jokin' ye," smiled "There's an easy way the old fellow. out of it."

"How?" asked Sid blankly. "Why, Sam Dunlap's no fool; don't you think he'd give ye Bramble Hill if ye married his daughter? It tain't nothin' but a worthless passell of rocks, anyway. He wouldn't sell it to ye, but he'd give it gladly, providin-" "You don't mean-"

(Continued next week).

Weary Willie-Ever play chess? Tottering Tommie-Naw; too much like

Weary Willie-But you don't have to move for a long time.

Tottering Tommie-Well, yer got t'



NOV. 2. 1912.

When Writing to advertisers please state that you saw their ad. in The Michigan Farmer.

After

GRANGE Our Motto—"The farmer is of more consequence than the farm, and should be first improved."

THE NOVEMBER PROGRAMS.

State Lecturer's Suggestions for First Meeting. (Co-operation Day Program.—"They helped everyone his neighbor; and every-one said to his brother, 'Be of good cour-age." "—Isa. xil, 6). Fifteen minutes of orchestra music, followed by a song. Election echoes by two men and two women.

women What shall the women do next?"

ment.

THE PROPELLING POWER OF WORK WELL DONE.

In another month all the Granges of the state, with the exception of some Pomonas, will elect new officers. It seems almost a pity that this annual election must come just at the beginning of the season when a Grange may reasonably expect to do its hardest and best It would seem as if better results work. might be expected if the new officers were installed a little earlier and they have their plans well laid in readiness for execution when the fall work is nicely out of the way and the evenings are longest.

However, there is the satisfaction of knowing that the thoroughly efficient officer will do such work as will carry his office forward for a time by the power the primal wealth of nations. of its momentum. This is what every conscientious officer has the right to expect. He will do his best up to the close of his term of office and turn over to his successor, not an empty title of office, tions a success to popular government?" but the duties of the same in such shape was the first topic considered by the that his example and his plans will pro- members of Conway and Handy Farmers pell the work forward over the line of Club at its September meeting. The topic readjustment with the impetus which he

pel' the work forward over the line of readjustment with the impetus which he has given. Tarficularly should this be true of the call that as far as he had been able to said that as far as he had been able to said that as far as he had been able to popular. Barely 15 per cent of the voters fook part in the last primary election, showing it is not a popular measure; one declaration of his politics, he has to cir-culate a petition signed by two per cent of his own party, etc. A. E. Cole, G. L. Adams and others favored the system, but not the present primary law. G. A. Newman believed the greatest trouble lies with the greatest trouble lies with the eacues. Edward Greenaway was in favor of primary election because work during this last month of the Grange year, but he should try to better his previous best at every point. Not alone that, but he should now get his program outlines, press clippings and notes upon the year's work in shape, so that he can make a concise report which has been in office. This should include the chief topics discussed during the yar, the different forms of entertain-ment features and mention of exhibits and illustrative material used to supple-ment the subjects considered. To also give the number of different people work as a triking feature of the program will make a striking feature of the report, and make a ive the number of different people who ave participated in the program will nake a striking feature of the report, and ny such facts go far to show how large percentage of the membership is ac-ually availing itself of the educational poptunities of the Grange. At first hought this may seem a mere form; but he chances are you will be simprised ourself at the showing you make in this ray. In case you have not brought re-on why this has been true and perhaps astify the fact to yourself and others. In the other hand, if you have had some-hing of a program at every meeting— ven though at times in y - own sight imay have seemed a slight one, this process, imaging. It will add, by this process, data the showing you can be better, with more profit for those en-gaged in business. have participated in the program will etc. make a striking feature of the report, and any such facts go far to show how large a percentage of the membership is actually availing itself of the educational opportunities of the Grange. At first thought this may seem a mere form; but the chances are you will be surprised yourself at the showing you make in this way. sults to pass, you will discover the reason why this has been true and perhaps justify the fact to yourself and others. On the other hand, if you have had something of a program at every meetingeven though at times in y it

sciences and ambitions are quickened at sight of unattained possibilities which are pointed out. Such a report acts against self-satisfaction, which is a state as undesirable in a society as in an individual. JENNIE BUELL.

COMING EVENTS.

National Grange, Forty-sixth An Meeting, at Spokane, Wash., Nov. Annual 26. to

Pomona Meetings.

Pomona Meetings. Kent Co., with Courtland Grange, Wednesday, Nov. 20. D. E. McClure, state speaker. Ingham Co., with Webberville and Van-town Granges, at farm home of Mr. and Mrs. Hugh Silsbee, Webberville, Friday, Nov. 22. Thanksgiving program. Kalamazoo Co., at Scotts, Wednesday, Nov. 6. Principal address by the State Lecturer. Charlevoix Co. with Income.

Whistling duet. Business co-operation: 1, its need; 2, in England; 3, in Denmark. The Grange plan of co-operation con-trasted with the American Rochdale plan. Closing song, with whistling accompani-**CLUBS** OFFICERS OF THE STATE ASSOCIA TION OF FARMERS' CLUBS.

President-J. D. Leland, Corunna. Vice-President-D. M. Morrison, St.

Johns. Secretary-Treasurer-Mrs. C. P. John-

son, Metamora. Directors—C. L. Wright, Caro; E. W. Woodruff, Blanchard; C. P. Johnson, Metamora; H. W. Chamberlain, White Lake; Wm. T. Hill, Carson City; Jerry Spaulding, Belding.

Address all communications relative to the organization of new Clubs to Mrs. C. P. Johnson, Metamora, Mich. Associational Motto.-

The skillful hand, with cultured mind, is the farmer's most valuable asset.

Associational Sentiment .--

The farmer, he garners from the soil

CLUB DISCUSSIONS.

Primary Elections .- "Are primary elecwas ably handled by Alton Grant, who

At may have seemed a slight one, this summary of the entire year will look en-couraging. It will add, by this process, to the splendid achievements which al-ready stand to the credit of the Grange, simply because of a persistency to hold frequent meetings and carry out a pro-gram at every meeting. In addition to a review of what has been accomplished, the retiring lecturer may well forecast what needs to be done, set forth plans that are still undeveloped and picture visions of what it is possible for his particular Grange to do in the future. I have known an entire Grange to be vitalized by this sort of reports. While it gratifies and surprises the mem-bers to see at a glance how much has been done, at the same time their con-



Grease

greasing the farm wagons, a little Old Dutch Cleanser will start that blackened grease and grime from your hands. It works just as well on any kind of stains and farm work discolorations. Moisten hands, sprinkle with Old Dutch Cleanser, and wash in clean water. Saves twice the effort

Many other uses and full directions on large sifter can-10c.

Whenever It Snows or Rains

Just get out your rubber boots and laugh at the danger of wet, cold feet and legs. You'll be glad to own boots that keep out the wet on snowbound days-boots that are lined with high-grade wool, fusion or wool net to keep your feet warm. You'll enjoy shoveling through that drift.





dealer.

WOONSOCKET RUBBER CO. Woonsocket, R. J. Makers of high-grade rubber boots and shoes.

WOONSOCKET



D

Probably Never Again Such Wonderful Bargains

S-M-A-S-H Go Roofing, Wire, Lumber, Building Material Prices !!!

SPECIAL This advertisement illustrates six of our leading complete House Designs. Dur building proposition is the most wonderful ever presented. We furnish the material needed to con-struct any of the houses illustrated for price quoted. All material guarantee brand new, exactly as rep-resented. Our guarantee noted elsewhere in this advertisement is so broad and binding, that you can-not possibly make a mistake when you deal with us. No money down-not one cent of cash in advance. We will ship you a complete carload of building material, or all the material needed to reproduce any of the designs shown in this advertisement, and you need not pay us a single penny of the money until the material reaches destination, and you have found it in accordance with our representations. Ask for our Special Building Terms. Our offer is the most wonderful ever published. Our Book of Plans contains 96 designs of modern homes, bungalows, barns and buildings; mailed free. Fill in coupon.

Design No. 117 \$635 Six Rooms and Bath. Excellent Interior. Size 39 feet, 6 inches by 27 feet.

The Chicago House Wrecking Co., has been in existence 20 years and has offered remarkable bargains and sold millions of dollars worth of merchandise and supplies. Our prices have always been lower than anyone else has been able to quote, but for this great Fall and Winter sale we have literally "smashed" and "busted" prices—abso-lutely the lowest prices ever offered in the history of merchandise and building lines. Our Company is known as the World's Bargain Center, and as the great "Price Wreckers", and if you want to see exactly how we earned these titles, write today for some of our remarkable "Price Wrecking" literature. Fill in the coupon below and we will send you any of these books without any obligation of any kind. Don't you buy a single thing until you have written for our wonderfully low prices —you will be surprised at our prices on every single article needed to build, construct or improve; also for articles in the household and furnishing goods line. Our stock includes practically everything "under the surd". Even if you have no intention of buying now, get in line with us just the same. Send for our literature and be prepared to take advantage of money-saving opportunities that will probably never again occur. We will sell you a carload of building material without one cent deposit. We know ful well that our goods will give satisfaction, and if we had the least doubt of the quality, we would not dare to make this remarkable offer. YOU CAN BUY A CARLOAD OF BUILDING MATERIAL WITHOUT A CENT IN ADVANCE

Filling outputs and solution of the second s

Combination Tool, \$2.85 Anvil, vise, pipe catter drill and har-die com-bined in one tool

bined in constraints of the second second bine for the second second second second case hardened; jaws of vise faced with case hardened; jaws of vise faced with case hardened steel. Lot 4-AD-10, price 32.85. Just the tool you've been looking for. This price means a material saving if you buy now; only 250 in stock.

Galvan'd Steel Tank, \$2.50

Capacity 14 bbls. heavy, 20 gauge gulvanized steel, round end tank, Coly 100 in stock. Lot 4 - AD - 100, 25,50 each; others from 254 to 50 bbls. at correspondingly low prices. Wash-ington Pirstock or storage tank, heavy flat, galvanized hoops and lugs, 4 ft. diam. by 21t. high, 125 gal, 86.17. Lot 4-AD-102. Others up to 10,000 gallons.

HandyBoltAssortment45c

Consists of 17 lengths and lizzes, ½ to 5-ins, long, ¼, 6-16 and ½ in, diameter, including nails, bolts, etc. Well and threads. A fine, handy assortment for every farmer, mechanic or black-smith. Lot 4-AD-108, price 45c.

750-Piece Assmort', 50c

Greatest bargain ever offered-will pay for itself many times over in a year. Contains carriage, machine tirg and plow bolts; flat and round headed screws; flat, round button and cone head steel rivets; flat and round head brass rivets and washers-750 piecess Lot 4-AD-105, price 50c.

The nature of our guarantee is so broad and bind-ing that no one can possibly go wrong in dealing with this company. Our capital stock is \$2,000,000. We have been in business for 20 years, and our honest dealings of the past has earned for us hun-dreds of thousands satisfied customers and friends. If you buy goods from us, and they are not asti-mastifactory merchandise and refund the full pur-chases price, or will make satisfactory adjustment. Should our goods fail to come up to our represent-tharges both ways; you are to be the judge. We want to enjoy your fullest confidence and we will gain it by giving you a guare, honest deal at litines. We refer you to the publisher of this or any other maper, it on any bank or banker; to any express on any and to the mercantile agencies; they all know us, and will attest our honesty and uprightness. Galvanized Roofing \$1.25 Per 109 Sq. Ft.

Fire, Water and Lightning Proof We bought 20,000 squares of this Corrugated from Roofing which we offer at this remarkably low price. It is new, perfect and first-class in every re-spect, but light weight. The sheets are 22x21x1 inches corrugated. Our price of \$1.25 per square is to trieful prepaid, but F. O. B. car Chicago. When ordering this item, specify per the AD-700. This is not galvanized, but black steel roofing. When ordering this item, specify per the AD-700. This is not galvanized, but black steel roofing. When ordering prices lower than anything ever offered in the roofing business. Galvanized roofing. We are offering prices lower than anything ever offered in the roofing business. Galvanized roofing. Solo, It shows you how to save money on all your Roofing, Stding or Celling purchases.

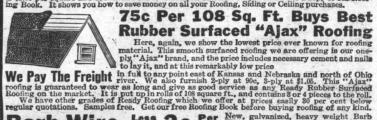
fron. Fire and smoke sase around kettle before going into smoke stack, bring-ing entire bottom of kettle in contact to hold actual number of gallons speci-fied. Big door permits large chunks of fire wood. 4-C-1999, 15 gallon, 84.82; cover, 57c extra. Other size to \$13.88.

Heavy Hand Lift Pump

S2.05 Best, strongest pump wells of any depth. Revolving head, hand can be operated at any angle. 6-inch stroke, fit-ed for 12/sinch pipe, strong iron brace. Price quoted is without cylinder. Lot AD 106. Write today for Special Pump List-free. We have a com-lete line of Pumps for every purpose.

Circular Cord Wood Saw

\$2.90 Made for use on cord wood special grade of steel-best wood saw made. Filed, set and sharpened ready for use; 20-ins. diameter, 13 grauge, 13-in hole. Lot 4-AD-107. Other sizes at correspondingly low prices. Also high grade Fremier Circular have Sada from the fremier Circular have Sada from the fremier Circular needs whether for ircular, two-man, or one-man saws.



GUARANTEE

Barb Wire, Less 2C Red Wire, pat up on reels about 100 lbs. to wire, pat up on reels about 100 lbs. to be reel. Lot 2-AD-28 per 100 lbs. to be reel. Lot 2-AD-28 per 100 lbs. to end to be reel. Lot 2-AD-28 per 100 lbs. to end to be reel. Lot 2-AD-28 per 100 lbs. to end to be reel. Lot 2-AD-28 per 100 lbs. to end to be reel. Lot 2-AD-28 per 100 lbs. to end to be reel. Lot 2-AD-28 per 100 lbs. to end to be reel. Lot 2-AD-28 per 100 lbs. to end to be reel. Lot 2-AD-28 per 100 lbs. to end to be reed on Barb Wire. Now is end to be reed on Barb Wire. Now is been off reed on Barb Wire. Now is unstantiated be to be reed on Barb Wire. Now is been off reed on Barb Wire. Now is to be the time to place your order while our stock remains.



15c Buys Best Hog Fencing

A high grade, perfect A high grade, perfect to the perfect of the perfect of the perfect to the perfect of the perfect of the perfect to the perfect of the perfect of the perfect to the perfect of the perfect of the perfect to the perfect of the perfect of the perfect to the perfect of the perfect of the perfect of the perfect to the perfect of the perfect of the perfect of the perfect to the perfect of the

Wire Nails, Per Keg, \$1.50

AND ASSORTHE LOTION UNITED UNITED







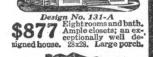


Besign No. 134-A Eightrooms and bath. Splendid porch; every convenience. Size 30 et by 30 feet.



\$872 Eightrooms and Bath; very attractive exteri-or. Five closets. Airy balcony. Size 28 feet by 28 feet.

HIT





<text><text><text><text><text><text> Sagar A supercoms hard dath, dependencies that dath, dependencies that dath, dependencies that dath, dependencies the personal supervision of Mr. V. Michaelson, for 80 years, and his name is known for over 8 (000,000 cans), and his name is known for over 8 (000,000 can Mail This



PLUMBING Statute enameled bath tub, 5 feet long, all nickel had cold water, lavatory of latest design, with high near base of the statute of the statute of the statute of the lated basis cocks, all white enameled, big size, nickel lated basis cocks, most semilary Syphon acting, yith reduktion of the statute of the statute of the statute andwood, copper lined, low down tank, latest style, easy working, noise-less bowl; hardwood seat and cover, nickel plated hinges; fitted with hardwood, copper lined, low down tank, latest style, easy working, noise-less working outfit. Easily work \$50, but for this preat Fall Sale we have item and wood seat and cover, bickel preat Fall Sale we have the statute of the statute of the source of the source of the statute item and the statute of the source of the source of the source of the statute of the statute of the source of the source of the source of the statute of the source of the source of the source of the source of the statute of the source of the source of the source of the source of the statute of the source of the sourc

m \$13 Buys Complete Bath Tub White enameled, cast iron, one piece, heavy roll rimbath tub 5 feet long; fitted with latestatyle, nick-elulated trimmings, including Fuller double bath cocks elplated trimmings, including Fuller double bat for hot and cold water, nickel plated connectee and overflow, and nickel plated supply pipes. In ordering, mention Lot 5-AD-101. J

\$6 Buys Complete Wash Stand Finest enameled, cast iron, one piece lavatory built; graceful In shape; can be furnished either for straight wall or corner of proom; trimmed with best nickel plated fittings. Lot 6-AD-104, price \$6.00. 40 other styles at proportionately low prices.

\$8.50 for a High Grade, Sanitary, Complete Closet We have 200 of these outfits. Closet bowl latest sanitary con-struction, syphon acting, virseous bowl, fitted complete with hardwood seat and over, with nickel plated hinges. Low down, intest style, copperlined tank. Outfit is Lot 5-AD-106. Write for prices on other styles, also our Plumbing and Heating Catalog.

Enameled Sink at 75c

Characteristic for the piece of the piece of

\$42 Buys Water Supply Outfits

And HEATING CO/COALINIT HEATING CO/COALINIT (atalog)//C

or one-man saws. Indestructible Hog Trough \$1.95 Strongest and best made; Saves feed, easily cleaned; length 6-ft, width 12-ina. Log other styles to select from at prices cheaper than common kind.

