

The Army Worm. While we do not think there is much

likelihood of a recurrence of the army worm pest next year, yet it may be well In case we should have another indiction to know a little more about it. The New York Agricultural Experiment Station has devoted Bulletin No. 104 to an investigation of the beast. and from it we extract some facts which our readers would do well to bear in mind.

The eggs are very small, globular in form, and nearly white in color. They are usually laid in the leaf sheachs of grasses and grains, and the early broed, which does the mischief, oviposit freely in the cut straw of old, stacks, in hay ricks, in old corn shocks. 18 inches high. Then take strips oneand in bits of corn stalk that have been left upon the surface of the ground in pactures. This will explain a fact that has been noted by many, that the worms started in blue grass pastures on which cord fodder had been fed to cattle.

in.

The young caterpillars come forth in about ten days from the time the eggs are laid. In case the eggs were placed on fresh grass or grain, the young larvae feed for a time in the sheath where the eggs were placed, but finally include the whole blade in the bill of fare. They are full grown in about four weeks. At this time a single larvae measures about an Inch and a half in length and a quarter of an inch in dinmeter. They may be briefly described as being smooth, naked caterpillars, moderately dark in color, with longitudinal stripes running the full length of the body. The third singe in the insects' life begins when the caterpillars go into the ground or under stones to make the wonderful change from an active caterpillar to an apparently lifeless creature. This stage is



THE ABMY WORM.

called the pupa stage, or, in the case of the butterflies and moths, is more familiarly known as the chrysalic stage. A single chrysalls measures about three-fourths of an inch in length.

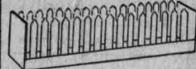
Capacity of a Corn Crib. It is a safe rule in estimating the size of a crib, to allow two cubic feet to each bushel of corn. By a cubic bushel is meant 70 pounds of ear corn.

doye on the farm, and one or the other ceels that they have not had their just deserts, it is time to pay off and quit. These sores never heal up entirely, and it doesn't pay to doctor them up, and have them break out in a new place worse than over.

A Time for Liberality. A little usighborly help and counsel may go a great ways toward keeping ome people from failure. There are in every community those who are in a osition to either distress or to help their less fortunate neighbors. In most cases it will do these people no good to draw the lines too tightly, while such action may cause the failure of some who would otherwise have avoided it. A man may be pretty hard up financially, and yet be all right. If his creditor knows this and takes advantage of it in a time of financial unrest the debtor and the whole business community are wronged, usually with no advantage to the creditor. No one is urged to take any great risk for the sake of accom modating a neighbor, yet all should realize the good that a little leniency may do, and the harm that may result from the opposite course.

## Poultry Feeding Rack.

For the bottom take a board 1 inch thick, 6 inches wide and 6 feet long, ends 1 inch thick, 6 inches wide and 18 inches long. Nail solid to ends of bottom; their ends flush with underside of bottom. Two strips half an inch thick and four inches wide are nailed to the edges of the bottom, thus making a trough three inches deep with ends quarter inch thick, 3 inches wide and



18 inches long, pointed at upper end, and nall them to the sides of the trough leaving a space between pickets of 11/2 inches for chicks or 2 inches for fowls. This gives a complete and durable fee-l rack, where the weak have equal chance with the strong, and no waste of feed.-Farm and Home.

No American Fat Stock Show, There will be no American Fat Stock Show in Chleago this year. The Illinois State Board of Agriculture has decided that the time is too short to allow for proper arrangements being made. The stockmen, too, are of the opinion that it would not be convenient for them to at-

tend, the time being too short for them to get their herds in condition. It is probable that another cause has operated to some extent. The Springfield fair involved them in debt about \$15,-000, and they had asked to have a guarantee fund of \$20,000 raised if the fat stock show was to be held. Only \$15,000 of the latter sum had been subscribed.

Dead Farrow a Naisance. The dead furrow is always a nulsance in preparing land for a crop, unless it is upon wet lands, which must necessarily be thrown into ridges a couple of rods wide to carry off surface water. The reversing plow is now used and highly recommended when it is desirable to have lands

level. We shall investigate this reversible plow and report upon its practical utility another season.

Dairy Pots. It is well to remember that culls will come with the best of breeding.

# USEFUL BOOKS GIVEN AWAY.

## INSTRUCTIONS FOR MAKING ART AND FANCY WORK.

Mrs. Nella Daggett of Boston has recently written a book, "Fancy Work and Art Decors tions," that gives practical instructions for making doiltes, table covers, sears, tray cloths pin cushions, etc., etc., with first illustrations

s, loge COUPON NO. 716 "0." This entities any reader

of this paper to one copy of "Funey Work and Art Dec-arations," and "Successful Home Dycing." Vt,

The shove al offer is made to advertise the reliable Dia-mond Dyes, and to get their book upon home dyeing into the hands of women who want to dreas well by making their old clothing look like new. The fact that Diamond Dyes have been the standard home dyes for nearly twenty years, and that their sale increases from year to year, is proof positive that they have never had an equal.

## CWINDLING ADVERTISERS.

footland Yard Detectives Keep an Eye

Upon Dangerous Sharpers. There is one official at Scotland Yard who is but little known to the public. but who all the same works very hard and successfully for the public good by closely scanning, day in and day out, the advertisements appearing is

every London newspaper. This official's primary duty is to keep a bright lookout for the very numerous swindling class which advertises for managers and so on prepared to invest money; but, quite beyond this, he, in the most careful manner, notes all advertisements as strike him in any way as being suspicious, handing them over to the heads of different departments. He is himself an expert in all matters that deal with cipher writing, and part

of his duty is to translate every cipher that may appear, handing over a copy of the translation to active members of the staff when anything is revealed that justifies such a course,

The writer had the privilege the othday of a short chat with this official bright young fellow, speaking sev-

eral languages, who said: "I am afraid that I am not allowed to tell you much, but I may say that no day ever passes without my handing over some advertisement for inquiry. Our scrutiny in this way has become very keen recently, for it is an open secret that certain foreign catch advertisement swindlers are expected here ere long.

"Besides, there have been exposed in court many cases of swindling recently which have depended solely on alluring advertisements. In two of them I gave warning long ago, but no prosecutor would come forward. Were I allowed to do so, I could show you hundreds of most mysterious cipher advertisements in the book over there, the bulk of these, of course, being be tween lovers, but many of them con taining warnings from one educated swindler to another.

"Of course, you know that the thieves even are all specialists nowadays, and It is surprising how soon a bogus advertisement swindler gets to work again in the same direction when he is released from jail. I am advised of the release of these men, and the characteristics of their style are soon observable again in the advertisement columns

"We, as a rule, warn them at once that we recognize the new plant, and in this way hundreds of warnings are sent out yearly and do an amount of good that the public knows nothing of that way. My duty is very monotonous, and I dare



Something is sure to be accomplished by the man who sticks to one thing. If we see nothing good in others, they

will not be likely to see much good in Not until we know a man's heart

have we any right to say that we know

We would all have less cause to blame others if we had fewer faults of our

Only God can tell how much wrong doing is prevented by one man doing right.

Before we can know much of God we have to find out a good deal about ourselves.

As much bitterness and hate can be expressed in a word as can be fired out of a gun

It is better to be able to suffer long and be kind than to be able to talk like an angel.

The man who says no to bimself in nothing has the devil for a traveling companion.

The Christian who does not look happy when he gives dims the polish on his gift.

The man who would have a large life, must work and pray that he may have a large heart.

A good man finds good wherever he goes, because the good in him brings out good in others.

The slothful man can never find that sweetness in bread which God puts in it for the diligent man. We often call upon God to take away

our trials, when what he wants is to give us grace to stand them. The devil almost gains our consent to

stay, when he proves that nobody else is doing anything to make him go. There is probably a time in the life of

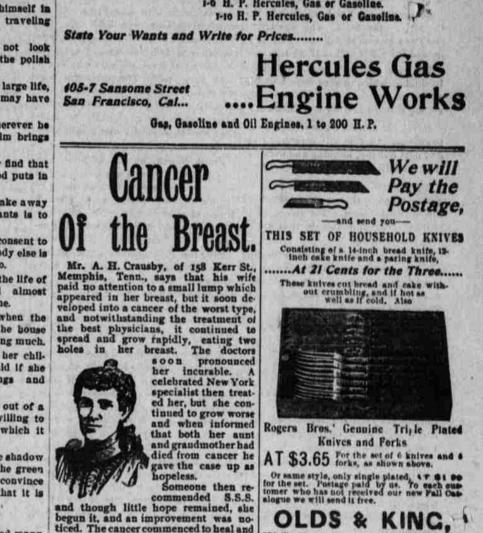
every man when his hand almost touches the philosopher's stone.

There will be no revival when the people can see clear across the bouse that the preacher isn't expecting much. Every mother should train her children as carefully as she would if she knew they were to be kings and queens.

Many a man cheats himself out of a blessing, because he is not willing to trust God with the way in which it shall come. David found the valley of the shadow

of death a better place than the green pastures, but it is hard to convince those who have not tried it that it is







which is equivalent to 56 pounds of shelled corn. The rule is to allow 14 pounds for cob in the fall, and 12 bazel.

pounds in the spring after the corn has been dried out perfectly. Two cribs thirty feet long, six feet wide and ten feet high, will by this rule hold 1,800 bushels. Ten feet is too high to throw corn easily with a scoop shovel, but there can be two openings for each crib extending down to within four or five feet of the floor, and when the crib is full to the bottom of these, short boards can be placed across them, as the crib is filled, and most of the filling can be done with case. When the cribs must be filled to the top, a boy or man can throw corn back to the ends and fill it, so as to utilize all the space.

Preserve a Record. It would be no bad plan for every farmer, and particularly for every young farmer, to make a resolution and keep it-to preserve an intelligible record of all his transactions, the times, the sensons, the crops grown, the dates of planting, with such history of their progress as will throw light upon the results reached. How one's time has been employed, what work was done, when, and in short every fact relating to the economy of the farm might be briefly but intelligibly noted. Such a record, even for a single year, would be of value in planning for the next year, enabling the farmer to better plan his work, because the points at which he succeeded, as well as those at which he failed during the previous year, would be full of suggestion and reminder.

The Advance in Wheat. The price of wheat has advanced in

all parts of the world, and is due to legitimate causes. First came a drouth in Australia, which cut down the last crop in the colonies very materially. Later the advices from Adelaide indicate great need of rain, and the next crop there may be dwarfed on that account. Two bad years in succession in Australia are improbable, but not impossible. The crop in the Argentine Republic is short for the same reason, and this is also true of India and Russia. The spectacle of California shipping wheat to Calcutta is one the world has never before beheld.

Pay Off and Quit. Whenever there is any misunderstanding between employer and em- off soft it is not ripe.

If a cow has a sore teat, milk very carefully, and apply extract of witch

> If a cow's teats are maddy or covered with other filth, they should be washed with water and then wiped dry before beginning to milk.

With temperature under control and churning direct at the right time, the butter will come solid so as to be easily handled and free from buttermilk.

When the butter is marbled, it is either caused by leaving too much buttermilk in the butter at the last working or the salt has not been distributed evenly.

Much of the average farm butter contains many of the essentials of good quality, but because it fails in one or more essentials it fails to bring best prices.

The laws enacted during the past two years with reference to oleomargarine seem to be slowly but surely reducing the output of the stuff, and they are certainly of great benefit to the legitimate dairy interests.

Agricultural Atoms.

Chinch bugs winter over among dead grass, in corn shocks, piles of rubbish, and along fences, especially hedges.

The potato blight is on the increase. Bordeaux mixture for blight and Paris green for bugs will have to be kept in stock by the potato grower.

For storing corn fodder, either shredded or bulk, any sort of a shed that has a rainproof roof will do. All that is necessary is that it be kept dry.

Land that is rich enough to produce crops on the "intensive" plan does not need rest, but a judicious rotation must be kept up, with clover mixed in somewhere.

Make your cellars frost proof, whitewash them, and let them at all times have light, and be capable of frequent ventilation. A cellar may be of greater value, or a pulsance.

The preponderance of evidence seems to be against the replowing of corn land for wheat. The land is in good condition without plowing. Cut the corn off low and drill in the wheat. To tell when pumpkins are ripe chip them with the finger nail. If the nail makes a snapping noise when breaking through the rind it is ripe, but if what you don't like"? it makes no noise or the chip comes

A Schilling & Company

t even a single edition behind hand."-London Tit-Bits.

# ERATION.

The above class of scientists recognize, and have repeatedly borne testimony, to the efficacy of Hostetter's Stomach Bitters as a remedy and preventive of lever and ague, rheumalism, waat of vigor, liver complaint, and some other aliments and infirm conditions of the system. Experience and observation have taught them is value. They but echo the verdict long since pronounced by the public and the press. Only the benighted new are ignorant of Amer-ica's tonic and alterative.

The multitude is like the rea; it either bears you up or swallows you, according to the wind.

## DEAFNESS CANNOT BE CORED.

<text>

Great things are not accomplished by idle dreams, but by years of patience and wise'y directed study.

CLERKS AND SALESMEN-MALE AND FE-male-Employed and unemployed; send stamped self addressed envelope at once for registration application blank to Employees Industrial Association. Home office, 246 Wash-ington street, Portland, Oregon.

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get your money back on

Best of your grocer, and

- Filters.

Prof. Tyndall's idea, expressed many years ago, that filtration through a plug PHYSICIANS WISE IN THEIR GEN. of cotton wool was a most efficient method of freeing air from microbic germs, led to attempts being made to sterilize water in the same way. Little success has hitherto been attained, but quite recently M. Henri Potevin claims that he has evolved a method of so constructing such filters that he can completely sterilize water in large quanti-

Our books will be mailed free to any ad-dress. Swift Specific Co., Atlanta Ga. ties. The fibers of the cotton are finely powdered and sifted, and then suspended in water and allowed to settle. This they do in compact mass, forming a paste, which, allowed to dry slowly, gives filter plates quite impervious to

by placing the plates between two plates of sandstone or perforated metal, and if they are arranged in a battery, like the filter presses so commonly used in Europe for sewage, sludge, etc., very large quantities of water can be rapidly sterilized. Periodical cleanings are necessary, as no matter what care is taken, the rule which holds good in all other filters serving the same end, that the microbes are able to get through the filtering material eventually by a process of growth, obtains. There is, however, no great difficulty in this, as the

by a fresh pulping in boiling water.

Woman's Reason. Surprised Dame-What? And you have refused Mr. De Goode? I thought you liked him.

Lovely Daughter-I did, but to tell you the truth, none of the other girls seemed to care a snap for him .- New York Recorder.

A Sure Way. An agricultural exchange asks: "How

"It is queer how you inexperienced riders always take such long rides." "No, it isn't a bit queer; we are afraid to stop and get off for fear we can't get

A man without enthusiasm is a very poor friend, but he takes good care of himself.

sons who have never tried 'possum

ticed. The cancer commenced to heal and when she had taken several bottles it disappeared entirely, and although sev-eral years have elapsed, not a sign of the disease has ever returned. a an improve

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their meals alone or with the younger

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HOW TO BE BEAUTIFUL!

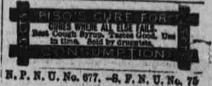
MME A. RUPPERT'S FACE BLEACH.

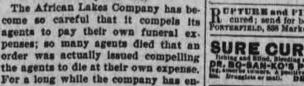
MME. A. BUPTERT says: "I appreciate the fact that there ire thousands and thousands at the ladies of the United finites that would like to try my World Renowned. FACK BLEACH but have been kept from doing soon account of the price, which is \$7 per bottle, or 5 bottles taken together \$5. in order that all of these may have an opportunity, I will mail free a sample bottle, safely packed, plain wrapper, on receipt of 25 cents. FRECK LSS, pimples, moth, sallowness, black heads, sone, creama, olliness or roughness, or any discoloration or dimense

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