very often difficult to

better to raise stock

f defects or disease.

ease is not so great or

raised for market.

service out of an un-

to sell him for what

also difficult at times with a serious defect action or lack of size orse that fills the bill slight unsoundness or a bad eye. Of

is to pass both up, ible and so one must ed from such horses

ig better is to be had.

is the matter with my ago, after travelling nced to hang back and

to something behind or

o balk. After going that she suddenly started to

had very little control own and went along as

riving all forenoon. After

on the road, suddenly and stopped, turned her

other horse, leaned out

ike an animal that had

ine. This lasted for a

artially out of it for a

ere repeated four times

un for about half a mile,

nat the only thing that

e unsteady on her feet

and the muscles of her was poked in the ribs an interval of 15 or 20

hes. The spell lasted he came all right again.

ere is some disturbance . It is difficult to point

re several diseased con-

that would account for

ire. For instance there

mulation of fluid in the

be something interfering it organ. On the other

of the digestive system ould cause her to act in he cause be tumor, or,

uctural change, a cure from gastric troublet

will likely bring about

rise you to turn her out

you possibly can; if nos

w diet for a few weeks.

ing bran mashes for one administer a purgative

of the mare, calomel 1

n, soft soap sufficient to

per making a bolus 2½ n fasting. Continue to

urging commences, then ial allowance of hay and

aloes from 7 to 10

A SUBSCRIBER.

vas the harness.

te went on all right.

urbance

Where horses are ork at home the oss

STOCK

It is doubtful whether unlimited pasture may able. be considered economical, except perhaps for brood sows. The proper amount of land to give over to pasture must necessarily vary according to its quality and other local considerations, and

Prof. Koch's Views on Tuberculosis

opinions expressed regarding the subject of bovine tuberculosis, and the chances of its giving rise to tuberculosis in man. At the International Tuberculosis Congress, in Washington, last autumn, he maintained his position, asserting that there was on record no anthentic case of pulmonary tuberculosis in man in which the disease had been demonstrated as of bovine origin. Emphatic exception was taken to his views by most of those Times correspondent as follows:

tween bovine and human tuberculosis. The in our columns.

simultaneous efforts made for the repression and of the paper cure of bovine as well as human tuberculosis, and ever, that the efforts of a country like Germany should be diverted from the task of repressing consumption by any attempts, on a large scale, to

Warbles in Cattle

A correspondent asks for information re prevention and destruction of warbles in cattle.

The warble fly attacks cattle in the summer months. In general appearance the fly resembles a small bumblebee, but with rather more hair on its body; it is brightly colored, with thick bands of yellow, black and red hair on the abdomen, and somewhat similar markings on the thorax. The presence of the fly is readily indithe field with head and neck outstretched and tail erect. The fly introduces its eggs under the skin by means of a sharp-pointed organ, and these eggs hatch into the warble or ox bot. The theory was formerly held that the eggs were taken into crops and what feeds do you prefer? the system by the cattle licking or biting them off, and that the grub found its way out through the skin of the back, but the latest and more

backs of cattle in the spring may be by means of more particularly with a substantial granary value of the hide are considerably lessened by the as to which is more advisable. work of the warbles, prevention is surely prefer-

Injured by Bull

to its quality and other local considerations, and the length of time the pasture will sustain hogs likewise is dependent upon the climate, quality of the crop, age and number of the animals, and other warying conditions. For an average it may be said that an acre of red clover should support formerly, probably because more care is exercised in hogs likewise is dependent upon the climate, quality into the air and but for a dog driving the injuriated into a profitable farm with 50 to 60 acres sown to brute off, would have finished him at once. One does grain—one must consider that the careful and economical handling of his threshed grain is a most important part of his "carees." In older A farmer at Holland, Manitoba was seriously insix to ten hogs for three or four months. Alfalfa handling the animals and because it is customary the leading pasture plant for swine, should provide, if of vigorous growth, for twelve to twenty-cidents of this kind occur with sufficient frequency and enough men are mainted five animals per acre, but an alfalfa stand should right to make it worth while provided in the same time acre is exercised in most important part of his "cares." In older settled districts where help is plentiful and where neighbors are near to handle the grain at thresh-five animals per acre, but an alfalfa stand should right to make it worth while provided in the same time acre. not be grazed by so many hogs that mowing will right to make it worth while repeating the caution horses generally are available and the hauling of that a bull, no matter how docile he may be, is liable the grain from the thresher causes Mr. Farmer no not be necessary for keeping it in the best condito turn on his attendant and should be handled al- concern. It is out in the new West where there to turn on his attendant and should be handled all concern. It is out in the new west where there pasture fewer hogs than will be able to keep back inflict injury. All bulls over one year old should be a rank or woody growth.—Coburn's "Swine in finged and led with a pole. All bulls except those kept for exhibition purposes should be dehorned."

It is out in the new west where there have been dependent in the new west where there have been dependent in the new west where there have been dependent in the new west where there have been dependent in the new west where there have been dependent in the new west where there have been dependent in the new west where there have been dependent in the new west where there have been dependent in the new west where there have been dependent in the new west where there have been dependent in the new west where there have been dependent in the new west where there have been dependent in the new west where the hand, where we find portable granaries are a decided success.

My portable granaries are built of one-ply It is possible for a dehorned animal to kill a man, if

FARM

Topics for Discussion

To afford an opportunity for the interchange of present, and the renewed discussion ensuing, ideas, and to provide a place where information machine is set, hook a pair of oxen to them and elicited from Dr. Koch the following statement may be given and received, we publish each week of his views to a correspondent of the London at the head of this department a list of topics, Times, in which paper they were published, which our readers are invited to discuss. Oppo- to a height of 8 feet, and as my granary doors are December 28th, 1908. They are reported by the site each topic is the date of publication of some 11 feet from the ground I made a wooden contributions on it and readers are reminded that shoot, and, after detaching the long metal grain The main points at issue are, first, whether articles contributed on any of the subjects given, spout from the machine the wooden one is hooked there are two distinct types of tuberculosis, or. must be in our hands at least ten days earlier up. A sack open at both ends, tied around the in other words, whether there is a difference be- than the subject is scheduled for discussion machine's grain hopper prevents the grain spread-

contention that there was only one type, and at of the paper is theirs. They are invited to write the granary. This operation of fixing up is done the Washington Congress nearly all those present the editor freely expressing their opinion of the inless than a minute.

received and published in the same issue.

August 11.—Is it wise for farmers engaged in them. avert the far smaller danger from bovine tuber- dairying to breed strictly dairy stock or is it better stock as well as milk?

September 1.-What treatment of stock do you

Storage for Grain

reasonable theory is that above indicated The suggestions on the construction of granaries will I'll build the next a little lower, say, 12 feet long, simplest measure of prevention suggested is the furnish hints to those who have to make 10 feet wide and 6 feet to the eaves, but with the smearing of the backs of the cattle during the provision for the out turn from this season's har- grain inlet in the roof just the same. I've seen oil and sulphur, applied with a brush or rag. katchewan gives practical hints on portable capacity. Treatment for destruction of the grub in the granaries while A. Jonson of Manitoba deals Sask.

mercurial cointment rubbed into the warble, or by large enough to hold the annual grain crop. squeezing them out by hand and crushing them. Local conditions and capital available must be But, since the comfort of the animal and the taken into consideration in arriving at a decision

Likes Portable Granaries

EDITOR FARMER'S ADVOCATE:

To the pioneer farmer—I mean the man, who,

the man leaves the opportunity open for it to do so, ship-lap—6x6 sills, 2x6 joists and 2x6 studding, but a bull without horns is far from being as danger- are 10 feet long, 8 feet wide and 8 feet high to the Prof. Robert Koch, the eminent German bacteriologist, who discovered the phthisis bacillus in 1890, has been much maligned because of the entry to finally clean out the grain. The roof door, we may call it, is also covered with ruberoid and being "flashed" with the same material is per-

fectly water proof. This size granary holds 750 bushels of oats, and as the hole is in the roof I can fill it to the ridge board using the granary to its full capacity. leave the granaries standing empty until the thresher pulls in to the stacks and when the draw them into place. The machine I use has a Perfection high bagger. This only delivers grain ing. When the hopper trips the half bushel, the Royal Commission has, he says, abandoned its Readers will understand that this department grain is delivered neatly and without any loss into

were agreed as to the existence of two types, manner in which it is conducted and to suggest I generally build four medium-sized oat stacks The second point at issue is the frequency with topics. If any reader has in mind a question to make one setting for the machine and about which human beings are infected by bovine tuber- which he or she may think can be profitably sufficient to fill the granaries. When they are culosis. Professor Koch never maintained that discussed, it will be given a place in the order through, all I have to do is put on the lid and human beings could not be infected by animals. of subjects, if it is deemed of sufficient general move on to the next setting. I find these gran-All he contended was that bovine infection was a interest. Because this notice runs weekly at the aries are a decided success. I have not to go less frequent source of the disease than human in- head of the Farm Department does not mean that hunting around to get neighbors to come over for fection, and less far-reaching in its evil effects. farm questions, only, may be taken up. The dis- two or three days, and in return having to do the Professor Koch would be very glad to see cussions will be spread over every department same for them, and before I know who's who, eight or ten days have slipped by and all I have For the best article received on each topic, we done is monkey around with grain. There is no thinks it possible that a rich country like England will award a first prize of Three Dollars and for time in this part of the West for any regrets on may be capable of carrying on that double cam- the second best Two Dollars, paying the latter days that have "slipped" by from thaw-out to paign. He does not consider it advisable, how- sum for other contributions on the subject freeze-up. In using portable granaries my aim was to save time and expense. I have used them Articles should not exceed 500 words in length, now three years and have no fault to find with

> I also have another handy contrivance used in to have dual purpose cows that will produce beef hauling grain to the elevator. On one corner I have a small sliding door, 4x4 inches and an out-August 18.—What method have you found best let shoot. This is fixed just "sleigh" high, inbetter to break the land after removal of the crop the sleigh, pull back the door and out comes the and cultivate till freeze-up, or break and backset in grain-a regular little river of it. With a grain shovel I fill the sleigh box in 15 minutes, drop the August 25-How can garden crops best be stored small door and am off to town. No heavy sack to ensure having them fit for table use to as late date lifting with mitts on at 20 below zero, no wear as possible? What precautions are necessary in and tear in sacks. I can clean out the grain

> I also have built near the house another buildadvise during late summer and fall in order to ing—granary, work shop and store shed. Here have them in fit condition to winter well? Parti- my fanning mill is housed, my seed grain carefully cularize for the class or classes of stock with which stored and on stormy days, 15 minutes out to the you have had most experience and also distinguish field granaries gives me a wagon box of grain. according to age of animal. Under what conditions I'm back to the cleaner and the hum of the fanning would you advise the feeding of grains or green mill drowns the sound of the storm and I am plenty warm enough and fully occupied watching

I am fully satisfied with portable granaries, but

