

DAIRY

MAKE WAR ON TUBERCULOSIS

More General Use of Intradermic Test Is Expected to Speed Up Campaign Against "TB."

Recognition of the intradermic method of applying the first test preparatory to accrediting a herd as free from tuberculosis, has been announced by the bureau of animal industry, United States department of agriculture. The more general use of the intradermic test is expected to "speed up" the federal and state co-operative campaign against TB. In the subcutaneous method, heretofore generally used, the tuberculin is inserted beneath the skin and it is necessary to take three preliminary records of the animal and at least seven soon after the test. In the intradermic method insertion is made between the layers of the skin and, while this requires a greater degree of skill in the operator, only one later inspection of the animal may be sufficient to indicate the presence or absence of the disease.

The federal recognition of the intradermic method provides, however, that herds undergoing it successfully must pass a subcutaneous test within a year before they can be accredited as free



Intradermic Test Has Been Recognized by About Three-Fourths of 45 States of Union.

from tuberculosis. The intradermic test has been recognized also by about three-fourths of the 45 states now co-operating with the federal government in the TB work.

Texas recently became the forty-fifth state engaged in the co-operative campaign. The three states not yet engaged in it are Arizona, Colorado and California. Arizona and Colorado are expected to receive authority to enter the work at the next session of their legislatures.

MILK DIET IS INSUFFICIENT

Calves Cannot Properly Digest and Utilize Milk Unless Accompanied by Roughage.

Recent research work done by the Iowa agricultural experiment station shows whole milk to be a good diet for young calves up to three months old. After this age the two calves experimented on developed symptoms of scant nourishment and went down hill until death finally came at the ages of 175 and 208 days. Failure of the milk as a permanent diet for the remaining animals is shown not to be due to quality or improper quantity of the nutrients, but probably to the inability of the animals to properly digest and utilize the milk unless accompanied by some kind of roughage. Disarrangement of the digestive system probably follows the abnormal symptoms noted in the experiment.

NECESSARY FEEDS FOR BULL

Aim to Keep Herd Sire From Getting Too Fat—Give Him Access to Field or Paddock.

"Keep the bull thrifty but not fat," is the advice of K. C. Ikeler of the animal husbandry department at Iowa state college. Give him plenty of good nutritious feed. Clover or alfalfa hay with some corn, oats and a little oil-meal are best for keeping him in good breeding condition. Silage makes a very good foundation for the ration but must not be fed in large amounts as it makes the bull potbellied and sluggish.

To keep the herd sire from getting too fat give him access to a small field or paddock where he can get the necessary exercise.

DAIRY NOTES

Test out the cows.

Do your dairy dehorning early.

Cows cannot produce the best quality of milk from polluted drinking water.

It is important that the calf pens be placed to avoid too great variations in temperature.

Good dairy cows will give profitable returns for an additional grain ration, even at present prices of feed.

Soybean hay makes a good feed for milk cows, and if well cured would not require any other roughage fed with it.

Good cows and a good separator will make profitable dairying. The cows if intelligently fed, will produce the butterfat and the separator will save it.

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PUBLIC ROADS

FUEL SAVED BY GOOD ROADS

Wear and Tear on Trucks and Amount of Gasoline Consumed Shown in Recent Ohio Test.

A test conducted in Ohio recently to determine the saving in gasoline from running over a good road as compared with gas consumption over bad and medium-grade roads, disclosed a surprising difference. Five new army standard "A" trucks with seven different types of road service, showed a gain of six miles per gallon of fuel between the best and worst types of roads. All the trucks were empty during the test.

The trucks loaded showed that the poor road took seven times as much gasoline per mile as the good one. The test results showed an average of 5.78 miles per gallon over a dirt road in good condition, 7.19 over fair gravel, 9.39 over good gravel, about the same over fair bituminous macadam and good brick roads, 11.44 over extra smooth brick and 11.73 over good concrete.

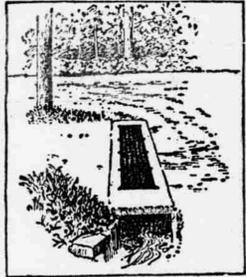
The saving to the motoring public in gasoline alone would amount to millions of dollars annually. Perhaps equal to this would be the saving in tires, which is considered as important an item of car upkeep as is gasoline. Calculating the saving in wear and tear on the mechanism of cars and trucks and also the item of time lost by poor roads, adequate highways are undoubtedly a sane investment.

CULVERT IS EASILY CLEANED

Much Trouble Obviated by Invention of Grate or Iron Bars, Resting in Notches.

Often culverts under roads and paths become clogged with debris and frequently give trouble because they cannot be readily cleaned. The device illustrated obviates all this difficulty. It consists of a grate of iron bars supported by crosspieces which rest in notches or upon the surface of stonework or concrete, says American Agriculturist. The bars and the crosspieces should be of heavy enough material to support any load that will be driven across the grating.

The one from which this drawing was made is in a footpath, so the bars



Grating Easily Lifted.

were only 1 1/2 inches wide and a quarter of an inch thick. The crosspieces are of the same material, bent at the ends and riveted to the bars. All that is necessary to clean such a culvert is to lift the grating and do the work with a spade or a hoe.

HIGHWAYS IN SOUTH DAKOTA

State Has 6,000 Miles of Improved Roads—Only Ten Other States Exceed in Mileage.

South Dakota has 6,000 miles of main highways, out of a total of 203,523 in the United States. Definite road systems have been established in 44 states, either through legislative action or through state and local officials. North Dakota has 4,000 miles and Minnesota 12,700. Only ten states exceed South Dakota in mileage, while several of them have less than 1,000 miles of main highway.

BIG HIGHWAY APPROPRIATION

State of Wyoming Has Let Contracts for Improvements to Cost \$3,000,000 in 1920.

The total estimated cost of highway improvements for which the Wyoming state highway department has let contracts, and which will be completed during the present year, exceeds \$3,000,000. This total represents \$15 for each inhabitant of the state.

Moroccan Road Traffic.

Traffic on the (French) Moroccan highways is very large. In addition to the transport of passengers by private or public automobiles, the roads permit an important movement of merchandise by motortrucks.

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Horticultural Facts

UPS AND DOWNS, IN PEACHES

Prospective Crop Estimated to Be About 77 Per Cent of Normal—Acreage Decreased.

It is said that the law of compensation works both ways—if the rich man gets his ice in the summer, the poor man gets his share in the winter. Averages of peach production appear to follow the same rule, according to the estimates just published by the bureau of crop estimates, United States department of agriculture.

Barring the possibilities of further disaster, the commercial peach orchards of Georgia and North and South Carolina will produce fairly heavy crops. California is scheduled for a bumper crop, and several other states will not be far below their 1919 average in car lot shipments of peaches, but these good prospects are more than offset by the frost damage inflicted upon the orchards in other states. Texas has been badly hurt, and so, also, have the Arkansas, Oklahoma, Missouri, and Tennessee orchards. The New England crop is reported ruined, and Washington, Utah, and Idaho report severe winter killing. To some extent the prospective



Distributing Peaches by Machinery.

crop is still further diminished by the decrease in acreage devoted to commercial peach orchards.

Altogether the bureau of crop estimates figures the conditions on April 1, 1920, to be about 77 per cent of normal. There is a slight decrease from this figure during the growing season, usually about 10 per cent, which will presumably reduce this early estimate to 67 per cent when the crop is harvested and the final count taken. Last year the April estimate was given as 84 per cent, and the decrease was 9 per cent during the growing season. In terms of bushels the crop last year figured 29,240,000 bushels of fruit. Allowing for the normal 20 per cent decrease in 1920, the crop this fall will be short of last year's production by about 3,000,000 bushels, giving a total of 26,460,000 bushels for the coming harvest.

REMOVE ALL VARIETY TAGS

If Wire Is Permitted to Remain It Slowly Girdles Tree, Eventually Causing Death.

In setting out young fruit trees the variety tag is often left tied to the tree so that the tree may be identified by its variety name in later years. This, however, generally causes more trouble and injury to the tree than the knowledge in knowing what particular variety the tree represents. Frequently a young tree two or three years old will be seen with the wire and tag around the main limb, but the wire imbedded in the growth of the tree to such an extent that when it is removed the top of the tree may die or if the wire is left on the tree it is simply a slow girdling process until the entire top of the tree is dead.

HORTICULTURAL NOTES

Berries are fruits that most people relish. This is especially true of strawberries.

The best soil for apple trees is a medium-heavy clay loam soil and well drained. A good many soils are not suitable for an apple orchard.

Peach trees can be pruned to increase vigor in the late fall as soon as most of the leaves are loose upon the twigs and beginning to fall freely.

Those who have given thought to peach growing know that as soon as the fertility of the soil begins to fall the crop is uncertain and of poor quality.

Prune grape vines enough to give plenty of room for each vine so that light and air may get in around them. Most varieties are inclined to produce too much wood.

A traveler for one of the music trade journals who has been making an extensive auto tour recently, reports that he visited twenty-five camping parties, and only three did not have a talking machine, the instruments adding much to the pleasure of the campers, and especially in the evening.

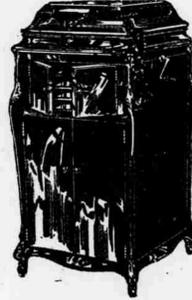
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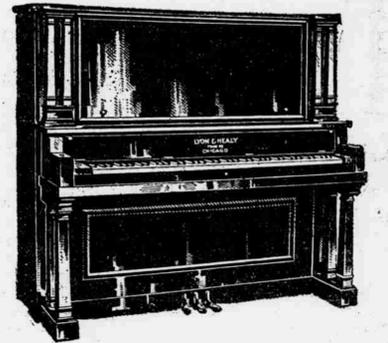


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