

HORSES AND MULES FOR WAR

Many Animals Not Particularly Needed on Farms Have Been Purchased by European Nations.

(By E. A. TROWBRIDGE, Missouri Experiment Station.)
The European nations now at war have purchased many Missouri horses and mules, which are not particularly needed. Of course, they have obtained some good animals, but many of them have not been of the best, and most of the mules bought were full aged. The older mules were bought because they could stand the trip across the Atlantic better than the younger ones. Some good cavalry horses were obtained.

A few horse dealers have predicted a high market price a short time after the close of the war. They are of the opinion that most of the horses now being purchased in this country will be killed, and that soldiers will need many animals on returning to their farms. I believe that the market will be good, but I do not predict any exceedingly high prices. This country will be able to supply any demands. A different situation might arise, if the war continues for more than a year.

Between 250,000 and 300,000 horses and 50,000 and 75,000 mules were contracted for in this country, and the loss of these animals to the United States only means the taking away of those produced between January 1, 1914, and January 1, 1915. With a similar increase during the present year, we would be able to supply a considerable number of horses and mules.

SUNLIGHT A GERM DESTROYER

Cheapest Disinfectant at Man's Disposal—Southern Exposure is Desirable in Buildings.

Sunlight is nature's great germ destroyer. It is the cheapest disinfectant at man's disposal and should be taken advantage of at every opportunity.

In the construction of barns or shelters of any kind for animals," says H. Preston Hoskins of Minnesota College of Agriculture, in extension bulletin No. 44, "ample provision should be made for the admission of the maximum amount of sunlight. A southern exposure is desirable; that is, an arrangement by which most of the windows face south. The warmth thus provided in cold weather is desirable and much of the heat of summer can be avoided by the use of curtains or screens.

"Most disease germs are entirely killed by direct sunlight. This has been repeatedly shown by experiments."

The farmer should bear this in mind in building his barn, stable, hog house, or poultry house.

CHEAP SLING FOR HAYFORK

Advantages of Modern Devices Appreciated by Man Who Has Pitched Hay From Wagon to Now.

The unloading of hay is now a comparatively easy task, made so by the use of machinery. Any man who has ever pitched hay from a wagon into a high mow will appreciate the advantages of the hayfork and sling. In one form of sling which is pretty generally used throughout the East, the sling is adjusted upon the hayrack and the hay loaded on without any particular care as to placing it. When the wagon reaches the barn as many drafts as can be taken off at

Leaf Blight of Tomatoes

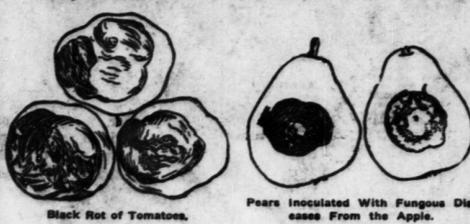
rotation is essential. In the control of stomach and intestinal worms in sheep, hogs and cattle, intelligent rotation covering definite periods, based upon longevity and life history of the pests, is now recognized as the most available and economical plan.

The fever tick which may be permanently eradicated by positive rotation. It has been found that if cattle and horses are removed from a pasture during the summer months it becomes free from the ticks. During the winter if infested cattle are run upon a certain field or other cultivated field upon which no animals have been during the summer all ticks will drop off, after which the animals may be placed upon the pasture that was free of ticks during the previous summer.

While it may seem anomalous probably the greatest factors in the control of insects, at least, are other insects and fungous diseases which are

SUGGESTIONS FOR THE CONTROL OF INSECT PESTS AND PLANT DISEASES

Many People Believe Insects and Fungi Are Controlled Only by Application of Chemical Preparations, and Give Little Attention to Attacks by Cultivation and Rotation, Based Upon Knowledge of Habits and Life History of Plants.



Black Rot of Tomatoes. Pears inoculated with Fungous Diseases From the Apple.

(By G. M. BRITTON, Tennessee.)
While much may be accomplished in the control of insects and fungous diseases by the use of insecticides and fungicides, more attention should be given to the prevention of the introduction of crop pests by judicious legislation, to the selection of resistant plants, to the elimination of weeds and worthless plants which harbor pests or act as intermediary hosts and are often of the same family as those under cultivation, to judicious rotation of crops and to better drainage, cultivation and fertilization.

Cultural methods of overcoming attack and injury by pests are based upon a knowledge of their habits and life histories. Simple rotation, season of planting, the use of trap plants, fall plowing, early planting, and many other average operations of the farm, if done with an intelligent knowledge of the habits and development of the pests to be controlled, will often of themselves prove decidedly efficient.

The succession of the same or similar crops on the same land has proved disastrous in more ways than by reduction of soil fertility. Its encouragement of the increase of insects and fungi has become notorious. The corn-root worm, boll worm or (corn-eater), Hessian fly, and many other pests are more or less affected by crop rotation, and their control by this method should be carefully studied.

In some sections affected by contagious diseases of live stock pasture

parasitic within or upon them. Such are truly friends of the producer, but they cannot be brought thoroughly under his control until insect life is better understood. Unable to identify these friends or to understand their operations, man too often treats them as enemies or minimizes their usefulness.

Birds as factors in insect control should be recognized. It is not uncommon to find large numbers of birds doing very effective work in controlling insect outbreaks.

Insecticides are substances which kill insects. Fungicides are substances which destroy fungous diseases. When insects and fungous diseases prevail upon the same plants insecticides and fungicides may be combined and the two results gained from one application. Variable results have been obtained from the use of insecticides and fungicides due largely to climatic conditions and to the quality, age and preparation of the ingredients used and the combinations made. A knowledge of the pest being treated and the nature of the plant infested is an important consideration.

Spraying has passed the experimental stage and is practiced by all up-to-date gardeners and fruit growers. The grower should know the common diseases and insects that affect his plants, should know their habits and life history, so as to know what treatment to use and at what stage in the life of the organism. Too much emphasis cannot be placed upon the necessity of doing the work at the right time with the proper solution and with thoroughness of application.

The most successful applications for plant diseases are made before the diseases appear because the remedies are preventive rather than curative. The fungous portion of the fungus producing the disease grows within the tissue of the host plant and cannot be reached after it has obtained a foothold. Proper application of a fungicide will, however, prevent the spread of the disease to other plants. The best time to spray for diseases, therefore, is about the time the spores are ripening and being distributed.

There are two general classes of diseases. (1) Fungous diseases are those caused by the growth of fungi which are small parasitic plants. (2) Bacterial diseases are those caused by the growth of bacteria. Under the first head are most of the common diseases, as the bitter rot of the apple, brown rot of the peach and plum, apple rust, apple scab, potato scab, tomato rot, cucumber anthracnose and mildew, etc. These can be successfully kept in check by spraying. Under the second head are such diseases as pear blight or fire blight. This cannot be controlled by spraying because all of the growth is within the host plant. The first thing to do is to find out what the trouble is, then proceed gradually in the work. Your expert stationer should be consulted for information gathered from this source will be of much greater value to you than can be derived from any other source. That is what state experiment stations are for—to find out by actual tests and intelligent observation, about all these things, and then tell you about them.

ABUNDANT SUPPLY OF WATER ACCUSTOM COLT TO HALTER

Cattle Should Not Be Compelled to Wade Through Mud for a Drink—Have Regular Feeding Hours.

Cattle that must go long distances for water or are made to wade through mud will not get enough and will not do well. It pays to have the water easy to reach and in abundance.

Regular hours of feeding without changes in the feed are of the utmost importance.

Put about one ounce of salt in the feed for every 1,000 pounds weight once a day for several days and then place ordinary salt where the animals can eat as much or as little as they want and when they want it. Do not give them all the salt they want unless they have first had about an ounce per 1,000 pounds weight once a day for several days.

Too many cattle in a small lot, or cattle of different sties and kinds tend to lessen the gains and the profits. If the manure is well served it will constitute a good profit and it is therefore, one of the most important items in determining the profits from feeding beef cattle.

Clean Horse Stalls. Give your stable a thorough cleaning occasionally. It will more than repay you in the way of appearance and be beneficial in a sanitary way.

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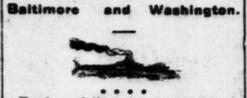
A traveling man who came this way recently goes to the post office of every town he makes and inquires about the letters which are held for postage. He pays the shortage and sends the letter on to the addressee. He says that he feels that he is doing somebody good, and he considers this a fine way to show real charity without letting his left hand know what his right hand doeth.

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Schedule in Effect September 3, 1912. Three Trips Weekly—Baltimore and Washington.



Read carefully as important changes have been made. Leave Baltimore, pier 3, Light street when weather permits, at 5 p. m., every Monday, Wednesday, and Saturday for the following river landings: Alexandria and Washington, Baltimore, 5 p. m.; Miller's, Broomes' Point, Bello, Grason's, Coan, 5 a. m.; Bundick's, Lakes, Walnut Point, Cowarts, Lewistown, Kinsale, Lodge, Mundy's Point, Cintra, Piney Point, 10 a. m.; Leonardtown, 12 noon; Abell's, Coburns, Stomes, Bushwood, Lances, 4 p. m.; Riverside, Liverpool, Point, Glymont, Alexandria and Washington.

Stops only on Signal. Leave Washington, Seventh street wharf, (weather permitting), 4 p. m., every Monday, Wednesday and Saturday for the following river landings and Baltimore: Washington, Alexandria, 4:45 p. m.; Glymont, Liverpool Point, Riverside, Bushwood, Coburns, Coburns, Stomes, Leonardtown, 5 a. m.; Abell's, Piney Point, Cintra, Lodge, 10 a. m.; Mundy's Point, Kinsale, 12 noon; Coan, Bundick's, Lakes, Walnut Point, Cowarts, Lewistown, Miller's, 4 p. m.; Grason's, 5 p. m.; Broomes', Porto Bello, 6 p. m., Baltimore.

Stops only on Signal. Arriving in Baltimore on Wednesday, Friday and Monday morning. Special Notice:—The extra steamer leaving Baltimore on Saturday and arriving on Tuesday, is withdrawn.

Freight received daily in Baltimore on sailing days until 4 p. m.

This time-table shows the time which steamers may be expected to arrive at and depart from the several wharves, but their arrivals or departure at the lines stated is not guaranteed, nor does the company hold itself responsible for any delay or any consequences arising therefrom.

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Md. Del. & Va. Ry. Co. PASSENGER DIVISION

SCHEDULE. In effect September 3, 1913.

Steamer will leave Baltimore, Pier Light (weather permitting), Friday, 12 noon, stopping at all the above points. Solomon's, 5:30 p. m., Millstone, 6 p. m., Cove Point, Governor's Run, 8 p. m., Fair Haven, 10 p. m., Baltimore, next morning.

Leave Baltimore, Pier 4, Light St. (weather permitting), Saturday, 2 p. m., for the following points: Fair Haven, Plum Point, Dares, Governor's Run, Cove Point, Millstone, Solomon's, Spencer's, St. Cuthbert's, St. Leonard's, Solter's, Solter's, Forester's, Forester's, Williams, Duke's, Trent Hall, Holland Point, Benedict.

Returning steamer will leave Benedict, (weather permitting), Friday, 12 noon, stopping at all the above points. Solomon's, 5:30 a. m., Millstone, 6 p. m., Cove Point, Governor's Run, 8 p. m., Dares, 8:20 p. m., Plum Point, 9 p. m., Fair Haven, 10 p. m., Baltimore, next morning.

Returning steamer will leave Lion Creek, (weather permitting), Monday 7:30 a. m., stopping at all the above points. Nottingham, 8:30 a. m., Lower Harbor, 10 a. m., Benedict, 12 noon, Solomon's, 5:30 p. m., Millstone, 6 p. m., Cove Point, Governor's Run, 8 p. m., Dares, 8:20 p. m., Plum Point, Fair Haven, 10 p. m., arriving Baltimore next morning.

Freight received in Baltimore, Pier 3 Light street, on Tuesday, Thursday and Saturday, until 1:30 p. m. This time table shows the time at which steamers may be expected to arrive at and depart from the several wharves, but their arrivals or departure at the times stated is not guaranteed, nor does the company hold itself responsible for any delay or any consequences arising therefrom.

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