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conclusions were reached through the results of numerous trials and detailed observation and were presented by Professor Call at the meeting of the Great Plains Co-operative Experimental association at Hays last July, and also recently at the meeting of the American Society of Agronomy in Washington.

**CARE OF AUTOMOBILE TIRES**

The professor in charge of automobiles and other motors at the Nebraska College of Agriculture offers the following suggestions regarding the care of automobile tires.

The large percentage of tire trouble is due to lack of sufficient air pressure. Pressure should be maintained at 20 pounds per inch of tire diameter. Thus, a four-inch tire should have a pressure of 80 pounds. The heating of the tire when in use should not be depended upon to increase the air pressure sufficiently if it is much less than that required at the time of starting.

There is little danger of having too high a pressure on a new tire, as every averaged sized tire is tested to 200 pounds before being sold.

If tires are old, judgment must be used in maintaining the normal pressure. If two strands of the fabric are left, however, the pressure of 20 pounds per inch of diameter may be maintained.

Tires should always be kept from the direct rays of the sun when possible. Every effort should be made to keep moisture from the fabric of the rubber. Tire dough is useful in keeping moisture out of the cracks and is not very expensive.

**FOOT AND MOUTH DISEASE**

Foot and mouth disease, the epidemic of which in many parts of the United States has caused such a sensation in the last few weeks, is thus described in the Journal of the American Medical Association:

"It is an acute, highly infectious disease, which occurs chiefly in cattle, sheep, goats and swine, though other animals such as the horse and dog, as well as certain wild animals, are attacked also, and it may affect human beings. In animals it is characterized especially by the eruption of vesicles in the mouth and on the feet.

"In cattle the incubation period averages from three to five days, whereupon a moderate fever with loss of appetite and other general symptoms sets in. In two or three days small blisters appear on the lining of the mouth, and now the fever usually subsides. At the same time one or more feet may show tenderness and swelling of the skin, soon vesicles form here also and the animal goes lame.

"Usually the milk is altered and reduced in quantity; blisters and ulcers may form on the udder. There is marked loss of weight, as the animals do not eat because of the pain. In this, the ordinary form, in which

the death rate is very small except among the young, the symptoms fade away in from ten to twenty days or so, except when complicating local secondary infections delay recovery, but there are also severe forms with extensive infection of the respiratory tract and gastro-intestinal inflammation which frequently end in sudden death.

"The cause of the disease is present in the contents of the vesicles, the discharges from the ulcers, the saliva, the milk, &c., but as a rule not after the tenth day. It is stated that animals having had the disease may carry the virus for months. Any susceptible species may infect any other susceptible species.

"Contamination of fodder, of stalls, of feeding and drinking troughs, of milk and milk products and of the hands and clothes of drovers serve to spread the disease, which often travels over wide stretches of country with remarkable rapidity, as shown by the present outbreak.

"The disease may effect human beings, especially children, being transmitted by milk from diseased cows (experimentally verified) and by butter and cheese made from such milk as well as through wounds and in other ways. While the course usually is favorable an epidemic described by Siegel had a mortality of 8 per cent. The manifestations are fever, digestive disturbances and vesicular eruption on the lips, the oropharyngeal lining."

**THE POULTRY FLOCK**

If new stock is needed in the spring, now is the best time to buy. Birds that will be large enough in the spring to make satisfactory breeders are sufficiently developed now to show their quality, and there are several good reasons for early buying. The majority of breeders prefer to move out their surplus stock as early as possible, in order to give their own stock more room. They make better prices on good stuff now than they can afford to make later in the season. Having the birds in your possession, you can give them the winter care that is essential to their best development, and can rest assured that you are breeding from healthy stock.

Roots of all kinds can be fed cooked or raw, but they should be chopped fine.

A light morning feed for the flock is best because it keeps them hustling through the day.

That hens must be fed and fed liberally if one expects eggs in large quantities, especially winter eggs.

**SUCCESSFUL DAIRYING**

If you expect success in dairying, follow the methods of successful dairymen. The question of good and successful winter feeding and management of milk cows has been settled to the satisfaction of all dairymen and farmers, who have experimented in many ways to learn what is the best thing to do to produce milk rich in butter fat, in the greatest quantity, and at the lowest cost price. This end has been reached only when all the conditions, viz: good cows, comfortable stabling, food in the proper quantity and the right variety, some exercise in fair and pleasant weather in open clean lots, and an abundance of drinking water at regular intervals.

Eight million members in twenty-seven states, indicates the twelve years' growth of the Farmers' Educational and Co-operative union in the United States. At its eleventh annual meeting at Fort Worth, Texas, two-thirds of the states in the union were represented.

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