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Hog Cholera.

The hog cholera is widespread and fatal in Livingston County this fall and it has become a serious menace to the hog raising industry. Entire droves have been and are being wiped out by this disease in practically every part of the county. Many droves are being shipped out. So that the county is being rapidly depleted of its hogs. This deplorable condition could have been largely avoided by quarantine, timely, preventative methods. The co-operation of every hog raiser in the county is necessary to make these methods effective. It is not too late for this work to be started now.

Hog cholera is a contagious disease, and is spread by means of blowing dust, running water, dogs and birds, it is carried on the shoes of persons walking through infected lots, by means of wagons, horses and all sorts of livestock which comes in contact with infected fields or lots. Herein lies the benefit of neighborhood quarantine. Persons visiting farms where hogs are sick should not wear the same shoes while in other feed lots, without having them thoroughly sterilized. Fields where hogs are infected, or thought to be infected with cholera, should be visited only by the owner or a veterinarian.

Dogs should be kept off of infected farms, pigeons and sparrows in such neighborhoods should be killed, or driven away. Infected hogs should be kept away from water courses. Well hogs should not have access to streams if these streams run through infected fields, neither should they be placed in pastures or lots along the public highway, if cholera prevalent in the neighborhood.

Hogs properly fed and kept in vigorous physical condition are most resistant to cholera. Do not feed more than the hogs will clean up good, or suddenly change from old to new corn if cholera is in the neighborhood. In case of dry lot feeding, use care to balance up the corn ration with tankage, brand, alfalfa hay or some protein bearing food. Clover or alfalfa pasture is good to feed on. Keep plenty of salt, charcoal and copper sulphate in the feed lot.

The following formula, for a preventative medicine, is good:

	Pounds
Wood charcoal	1
Sulphur	1
Sodium Chloride	2
Sodium Bicarbonate	2
Sodium Hyposulphite	2
Sodium Sulphate	1
Antimony Sulphid (Black Antimony)	1

This medicine should be used simply to keep the hogs in good health. It is mixed with the feed in the proportion of a large tablespoonful to each 200 pounds live weight of hogs to be treated and should be given not oftener than once a day.

As a final preventative step, if the cholera is in the neighborhood, have the hogs vaccinated with serum and virus. This method is perfectly reliable and only in infrequent cases are losses sustained after its use. Hogs properly treated with serum and virus before they become infected are rendered permanently immune from the cholera disease.

Serum treatment is not a cure for hog cholera. If the serum and virus is used after cholera breaks out in a bunch, the percentage which will be saved by this method cannot be even approximated. The value of the serum, at this stage, depends on the extent of infection.

On the first appearance of cholera in a bunch of hogs, the well hogs should be removed at once from the sick ones, leaving the sick hogs in the infected lots. Do not remove the sick hogs and leave the well ones in the infected field. Liberal quantities of slacked lime should be scattered over the feeding pen along paths and in the sleeping places. Feed troughs should be washed with a solution of one part of Cresol to 30 parts of water, or a weak solution of carbolic acid. Pens and feeding places should be white-washed and all rubbish and filth should be burned. It is dangerous to bury hogs which have died of cholera. Disease germs may infect the soil about these places for years. To facilitate the burning of the dead hogs, dig a trench in the ground large enough for considerable supply of fuel, and then lay iron bars across this trench. Lay the bodies to be disposed of, on these bars. Heat from below will soon draw out the fat when the bodies will be quickly consumed by the burning fat.

Hog cholera serum and virus may be obtained from the State Board of Live Stock Commissioners, free of charge, through this office, or through veterinarians who have registered

with the State Board. The State Board sends serum and virus only to persons who are familiar with its use and no one who has not had experience in the use of virus should be permitted, or attempt, to use this material.

Hogs should not be vaccinated unless the cholera is in the neighborhood. The veterinarians in this county should register with Dr. A. T. Peters, Bacteriologist, State Board of Live Stock Commissioners, at Springfield. They would, in this way, meet the requirements of the Board and be able to obtain and administer the state serum.

If the local veterinarian is unable to obtain state serum and virus for you, send in your request for serum to this office, giving number and size of pigs, number sick, dead and amount of cholera in the neighborhood.

ROY C. BISHOP
Agent, U. S. Dept. Agriculture.

The Youth's Companion in 1914.

Seven college presidents and a number of college instructors, including ex-President Taft, will contribute to The Youth's Companion during 1914. Then there is Gene Stratton Porter, whose stories of Indiana woods and swamps have made her famous, and

Kate Douglas Wiggin, who never wrote a dull line in her life, and Mrs. Burton Harrison, who remembers when conversation was really an art as practised in Washington and in the manor houses of Virginia. And this is just a beginning of the list.

If you know The Companion, you have a pretty clear idea of what is in store for next year's readers. If you do not know, ask us to send you sample copies—for instance, those containing the opening chapters of Arthur Stanwood Pier's fine serial—"His Father's Son." Full Announcement for 1914 will be sent with the sample copies.

For the year's subscription of \$2.00 there is included The Companion Practical Home Calendar for 1914, and all the issues of the paper for the remaining weeks of 1913, dating from the time the subscription is received.

THE YOUTH'S COMPANION,
144 Berkeley St., Boston, Mass.
New subscriptions received at this office.

Cheering Thought.

While mourning the wickedness of the present age, it is well to remember that if we had lived in another age we would be dead now.

Our "Odd Fact" Series.

The longest word in the German language is "Constantinopolitanischerbergwäster," which means, "The fatherly lodging house keeper for Turkish bagpipe makers journeymen."—Letter to New York Herald.

Take Care of Your Fluorine.

Prof. Armand Gautier tells the French Academy of Sciences that when the element of fluorine begins to disappear from the body old age comes on. It is this that causes the falling of the hair and the loss of the teeth.

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No Other "Six" in the
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How completely the Studebaker "SIX" is the product of the great Studebaker plants you will realize when you know that its construction requires more than 6,000 manufacturing operations.

We build its motor, from the raw iron and steel, down through the numerous processes of casting, machining, grinding and assembling to the finished product.

We build its full-floating rear axle; stamp the light though tremendously strong housing from the sheet steel; we forge, cut and machine the axle and transmission gears.

Throughout the rear axle and transmission, and in the front wheels we use 13 Timken roller bearings for quiet, easy running.

Economical
of Fuel and Tires

In fuel consumption we believe the "SIX" will match, if not surpass, the economy of any car of equal horsepower. Its motor size is 2 1/2 x 5 inches.

It is economical because, in spite of its 121-inch wheelbase it is light, and easy on its 34 x 4 inch tires; yet it is wonderfully strong.

It is generously roomy and richly upholstered, and carries its seven passengers in utmost comfort.

In design and line, the "SIX" acknowledges no greater beauty and grace.

Separate
Electrical Units

The starting and lighting system is the Wagner two-unit, starting motor and generator separate.

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Nothing that we can say here will give you an adequate idea of the power possibilities of this car—or of the things of which it is actually capable.

The motor presents the latest approved engineering practice—cylinders cast on bloc, valves enclosed, exhaust and intake manifolds integral.

The intake is very short and direct, placing the carburetor in a most advantageous position.

In fuel, both oil and gasoline, it will give long mileage.

Thirteen Timken bearings reduce friction and wear to the minimum at every point in the transmission and rear axle and in front wheel hubs.

A Car Pleasing
to the Eye

The "FOUR" presents the beautiful continuous stream-line effects, with hood sloped upward to a deep cowl.

Running boards are clean and free, with foot plates of aluminum.

The gasoline supply is under the cowl, giving a short, direct gravity feed to the carburetor.

Its rear axle is of the full-floating type, and completely accessible.

The rear springs are full-elliptic, very long and easy, and with the lower member suspended beneath the axle.

Electric Lighting
and Starting

It has left hand steering and center control. The electrical starting and lighting equipment is the Wagner two-unit system—two units for greater efficiency and greater dependability.

Headlights are Gray & Davis' best quality parabolic lamps.

The windshield is of new design, ventilating, clear vision and rain vision.

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Complete Equipment

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Studebaker-Jiffy curtains are always ready for quick lowering from within the car.

The dash equipment includes illuminated speedometer, oil feed and electric current indicator.

Electric horn, robe rail, tools and tool box are also furnished with the four.

The car can now be seen at the Studebaker store, and a demonstration arranged.

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but because of the good
name.

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