

## FACTS CONCERNING CHOLERA

Fred R. Glassburner, Student at Ames, Writs of Cholera Serum for The Review.

\$20,000,000 LOSS LAST YEAR

How to Treat Hogs With Cholera Serum. First Tried on Pigs Weighing 30 to 60 Pounds

Fred R. Glassburner, son of J. B. Glassburner of Union township, who is a student at the State Agricultural college at Ames, has sent the Review an interesting article containing facts about hog cholera serum which will be of great interest to farmers in this county.

He writes that the figures were taken directly from the report of the extension department and the remainder of the article from his own personal observations and the experience of instructors and veterinarians. The article was prepared by Fred Glassburner for a class in Agricultural Journalism at the college and it was so good that his Professor suggested that he send it to his home paper. We are only too glad to print articles bearing on this important question. The article follows:

Hog cholera cause—a loss to the farmers of Iowa of not less than \$20,000,000 during the season of 1913 according to figures recently compiled. In some counties 50 per cent of the hogs died, and 88 of the 99 counties of the state were badly affected. Because of this great loss, a campaign has been launched to stop the spread of the disease. The state serum plant moved into its new quarters in November and are now producing enough serum daily to vaccinate 3600 60 lb. hogs. They expect to increase the output in the near future. This will make it possible for the farmers to get serum and get it quickly.

"Anti-hog cholera serum has fallen into disrepute in some sections," says Professor Charles Murray of Iowa State college, "because of careless and incompetent handling." Many veterinarians, in their anxiety to supply the demand for vaccination, use whatever serum they can get without regard as to whether it has been tested. As a result many hogs have been vaccinated with a serum that is worthless while others have been infected by the method, instead of being protected by it.

Hog cholera is produced by a virus of germ so small that it cannot be seen by the most powerful microscope. It is not transmissible to other farm animals. The hogs die of an acute form of the disease, or it may assume a chronic form. Animals that recover are immune from the disease and their blood has some immunizing power

when injected into other susceptible animals.

In producing anti-hog cholera serum, it is necessary to start with a hog that has recovered or which has been previously immunized. This animal must then be hyper-immunized. In order to do this, one cubic centimeter of virulent blood per pound of live weight is injected into the veins. A week later, two and one-half times as much is injected. After another week five times as large an injection is made and other injections follow. The blood of this hog is then taken, treated to prevent clotting and the serum used to immunize other hogs.

Before the serum is used it must be tested. This is done on pigs weighing from 30 to 60 lbs. 15cc of potent serum should protect one of the animals against 2 cc of virulent blood. If the serum is not good the hog dies, hence the test is absolutely sure. Such impotent serum is discarded. The plant at the Iowa State college puts out only tested serum.

But one complaint has ever been recorded against the State serum, and in this case it was found that too small an amount had been given. In many cases through the state where hogs treated with serum have died, the serum usually obtained from commercial sources lacked potency and consequently only slight immunity resulted.

The anti-serum gives only temporary immunity. When protected by this, the hog may be given an injection of virile blood which confers a lasting immunity. There is no danger in this if the serum has been tested. This is certain only if the blood is known to contain a potent virus. In some cases the virus is weak or dead and only a temporary immunity results, and in from 6 to 8 weeks the hogs again become susceptible to the disease. If the disease is already in the herd, the single treatment is ample as the hogs will contract the disease and recover from it, thus becoming permanently immune without the use of the virus.

In order to handle hog cholera in their herds with any certainty the farmers of Iowa should use only tested serum from the state laboratory at Ames. The serum must be administered by a competent veterinarian at the right time. At least three hog cholera experts are in the employ of the extension department who will be sent to aid the farmers wherever had outbreaks occur. With its enlarged capacity the laboratory should be able to supply any and all calls for serum. This should prevent any repetition of the scourge of cholera of the past season.

P. A. Widener has paid \$700,000 for a Raphael picture, in spite of the fact that paintings containing many more square yards can be had for less money.

The slaughter house reports seem to omit the large and increasing output of Gen. Villa.

Go to church Sunday, February 22d.

### SOCIAL NOTES.

The P. E. O.'s gave a very lively valentine pre-nuptial party on Friday afternoon at the home of Mrs. Philbrook, honoring Miss Hilda Brodersen, who will be one of the spring brides. Miss Brodersen was made the recipient of a handkerchief shower and was presented with a beautiful set of sterling silver teaspoons, the gift of the Denison chapter. The unmarried ladies of the society acted as a committee for the occasion and served a very elegant two course lunch. The house was decorated with hearts, valentines and cut flowers and throughout the menu evidences of St. Valentine were apparent. A delightfully social afternoon was enjoyed by all present.

The dancing club enjoyed a valentine dance at Hotel Denison on Friday evening.

A valentine social was given by the W. O. W. and Circle on Saturday evening. An unusually large number were in attendance and had a very jolly time. Delicious refreshments were served and a dance was much enjoyed as a finish to the pleasant evening.

The H. H. club will meet Thursday evening with Miss Clara Poole as hostess.

Miss Alice Stevens entertained a few friends at dinner Sunday at Hotel Denison, complimentary to Miss Mae Thureson, who was a week end guest of Miss Stevens.

The Friday club will meet in the club room this week for an interesting program.

Mrs. Criswell gave a very pretty wedding breakfast for her niece and immediate family on Saturday noon. Mrs. Lottie Boarway and Mr. Niggemeyer were married at the residence of Father Farrelly and the breakfast followed at the Criswell home. Mr. and Mrs. Niggemeyer will reside in Milwaukee, Wis.

The Auction Bridge club will be entertained by Mrs. Kate Johnson Friday evening at the home of Miss Grace Meyers.

The Queen Esther circle met with the Misses Strahan on Monday evening. After the regular meeting five young ladies of the company served very nice refreshments and then presented Miss Iva Smith with a beautiful embroidered pillow and Miss Hilda Brodersen with a dainty sandwich basket. Both of these young ladies are to be spring brides.

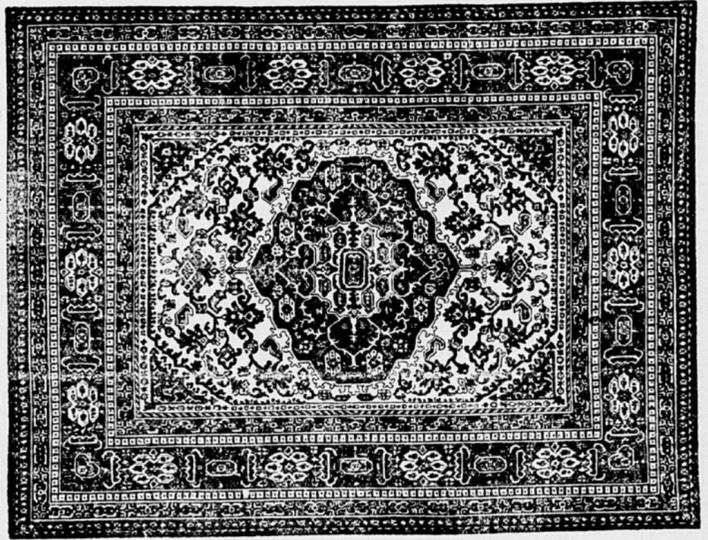
The Baraca class of the Methodist church entertained the Philathens at the Carnegie club room Monday evening. About forty were in attendance and thoroughly enjoyed the fine entertainment which had been planned for them. Very elegant refreshments were served late in the evening.

The Penelope club members and a number of guests enjoyed meeting with Mrs. Criswell Tuesday. A very fine lunch was served, to which a number of the gentlemen were invited.

A jolly crowd of young folks drove out to the pleasant home of Ben Foderberg on Tuesday evening and enjoyed a party in honor of Mrs. Harry Ackley, who leaves soon to make her

## Menagh's Rug Department

offers for this week and Saturday fifty 9x12 Axminster rugs in all new 1914 spring patterns at a saving of at least 25 per cent.



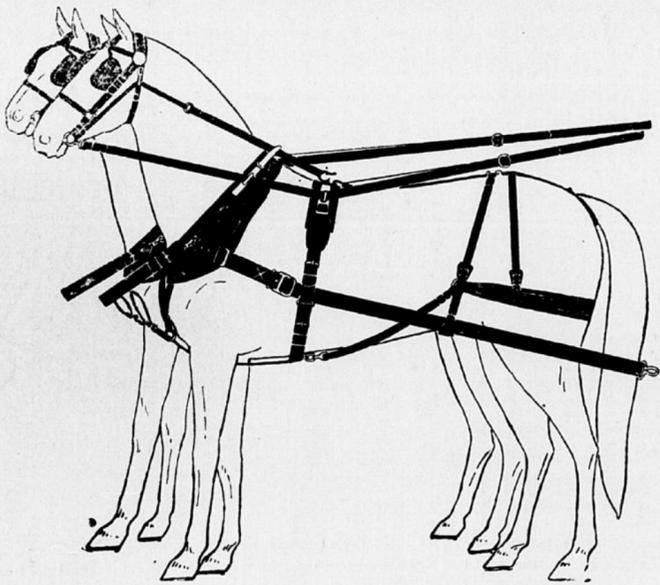
10 heavy Bigelow Axminster rugs. These are heavy weight. They are values that have sold as high as \$31.50. Priced for this week at \$25.50.  
 15 Bigelow Axminster rugs formerly sold at \$28.50, specially priced for this week at \$19.85.  
 15 Axminster rugs in the lighter rugs. These have sold from \$22.50 to \$25. Priced at \$16.50 and \$17.85.  
 Tapestry brussels rugs in the double pattern. We offer 10 of these rugs. They are sold by most dealers from \$13 to \$15. Specially priced while they last at \$9.85.

## Linoleums

16-4 Linoleum. This linoleum is 12 feet wide and shown in three different patterns. Priced at \$2.29 per running yard.  
 Inlaid Linoleum, 6 feet wide. This is in a brown pattern. 89c per sq. yard.  
 Heavy Inlaid Linoleum. This is a linoleum that is priced by most dealers at about \$1.55 per square yard. It is the tile pattern, blue and white squares. Specially priced this week at \$1.19 per square yard.

## Menagh's Store

## Special in 1 1/2 Inch Concord Harness



For this week we offer 20 set of 1 1/2 inch Concord farm harness, made in our own factory. Every strap guaranteed as to its wearing qualities and positively the best value that we will offer you this season. We advise early buying as we expect to have them all sold in the next five days.

Bridles 1 1/2 crown, 1/2 side and 1/2 throat. Fitted with the over check, made up with the round cheek, and the flat check fitted with No. 47 bit, and heavy hitch rein.  
 Traces 1 1/2 wide, stitched 6 stitches to the inch, all stitches sunk underneath the leather. This insures the thread from wearing out and the trace coming apart.  
 Breeching 3 feet 6 inches long, folded, fitted with 1 1/2 layer strap. Turn back 1 inch wide, fitted with a heavy trace carrier. Martingales 1 1/2 inch wide, double throughout.  
 This job complete, less collars. **\$37.98**  
 Add \$4.00 for collars.

## Menagh's Store

home in Newport, Wash. About thirty friends were present and presented the honored guest with a Circle pin and a Denison souvenir spoon with a picture of the new post office engraved in the bowl. An evening of jollity and good cheer was topped off with a fine supper and all lingered until it was late when goodbyes and best wishes were showered on the departing guest.

Mrs. Harry Carpenter gave a miscellaneous shower for Miss Iva Smith on Tuesday evening. The young ladies enjoyed the delightful hospitality and the honored guest received a great many lovely tokens of the high regard of her friends. Delicious refreshments were served.

The Coterie club will be entertained by Mrs. George McHenry Thursday. Trinity Guild had a splendid meeting with Mrs. O. A. Patterson Wednesday afternoon.

The ladies of the Priscilla club met with Mrs. A. Schneekloth Tuesday afternoon and enjoyed a pleasant afternoon with their work. Late in the afternoon Mrs. Schneekloth served delicious refreshments and all enjoyed the delightful afternoon with their charming hostess.

The Degree of Honor gave a covered dish party at the McKim hall last evening, which was greatly enjoyed by all the members present.

Mr. and Mrs. Alfred Wright and Miss Kate Kelly entertained a number of friends at a card party last evening in honor of their guest, Miss Winnie Smith. After the card game, Mrs. Wright served delicious refreshments. Those in attendance report the evening a most enjoyable one.

### EXTRA SPECIAL AT GERMANIA

Thomas W. Ross, the foremost American Comedian, in Motion Pictures Friday Evening.

With a cast of more than one hundred and with the only and inimitable Thomas W. Ross, the foremost of American comedians in the leading role, that real play of true American life and heart interest. "Checkers," has been given to the motion picture going public by the All Star Feature corporation, the makers of "Arizona."

A Broadway cast has been carefully selected for the presentation of this silent drama, and in support of Mr. Ross there is to be seen many of the original company, and many faces which have for a number of years been identified with various of the more prominent stock companies of the country. In the supporting cast are to be seen Gertrude Shipman, a prominent stock leading lady; William A. Williams, formerly of the Pathe company; Jack Regan in the character of Push Miller, and many others.

In order to secure the necessary local atmosphere of the racing life, the producers have at tremendous expense had their company quartered at the Laurel and Havre de Grace race courses in Maryland, and as a result, the picture abounds with views of thoroughbreds pounding down the

stretch in races, the morning workouts, the crowds at the grand stands, etc.

"Checkers" in five reels and more than 150 scenes will be shown at the Germania opera house Friday, February 20th.

Horrible sufferings were endured in the battle of Ojinaga, but they are viewed with equanimity by Mexicans who have been accustomed to work hoeing corn.

Sale of household furniture on the streets Friday, February 20th, at 2 o'clock—All of my household goods will be offered. H. W. Ackley, 7-1 pd

WANTED—A barn to rent within three or four blocks of Scaggs property in East Denison. Please notify Frank Woolston at Boyer. 7-1t

FOR SALE—Two incubators and a brooder. Some good Plymouth Rock pullets. A. C. Weeks. 7-2t pd

## CHECKERS

America's Greatest Racing Play Will Be Presented in Motion Pictures at

## Germania Opera House Friday Eve, Feb. 20

Thos. W. Rose and a cast of 100 Broadway Favorites in this wonderful drama of Hart Inter- and stirring situations.

Checkers is one of the biggest sellers of American novels and in play form instantly scored a wild fire success, playing to packed theatres all over America. It will be offered in motion pictures in a great six part feature photo play and is one that you cannot afford to miss.

It is a big film, crammed full of  
Ginger, Get-up and Go.