

MAN OR BEAST?

By ELLIS PARKER BUTLER

It was half an hour before the performance in the big tent. The managerite tent was beginning to fill. The gasoline torches were blazing fiercely and adding their fumes to the pungent animal odors, and the aroma of the damp pine sawdust under foot added in crowding that distinctly circus scent thickly the incense of plants to the nose of the small boy.

The vendors of peanuts and pink and white "lemon" were busy at their stands near where the rough-hided elephants and show-work camels were chained to stakes around the center-pole, and through an opening at the far end of the tent could be seen the tiers of blue plank seats in the big tent, and one or two blue-jacketed men hastily raking sawdust in the two big rigs.

A stream of eager children pressed around the circle of cages, crowding close to the guard-rods, ejaculating with wonder at sight of the ants of eagerly gliding ahead in vain endeavor to see the hippopotamus with its cave-like mouth. Those who had fared off unobtrusively joined the animals, keeping one eye on the sleepy watchman.

It was the real circus, the only ten centuries greatest shows on earth, and it had actually come to Yarnaby in all its glory with its cages and fluttering banners. Its four champion bands and its twenty-five elite troupes of trained circus artists, from the wonderful beasts that appeared on the show-bills and no where else, to the poles and posts and seats, painted that shade of blue that is seen on circus poles and posts and seats and is seen there only.

All Yarnaby county that had not attended the morning performance crowded the tent that evening, and of all the animals the lions were watched with the greatest awe. The monarchs of the animal kingdom lay at the back of the tent.

"What's he doing?" they asked in whispers.

Silly gazed.

"He's hypnotizing 'em," the boys whispered, proudly, and the crowd passed from one to another, and all stood eagerly watching Silas and the lion by turns.

The pupils of the lion's eyes soon tracked and expanded. Flashes of yellow fire from them. His tail swung slowly to and fro, coiling and uncoiling like an angry serpent.

Silas wrinkled his brow and frowned steadily at the lion. He clenched his fists and drew every muscle taut. He breathed quickly, his nostrils dilated into the hollows of his hoofs, and tried to concentrate his whole being into the words: "Go an' lay down." Go an' lay down, that is what Silas wanted the lion to do. The crowd edged close to Silas.

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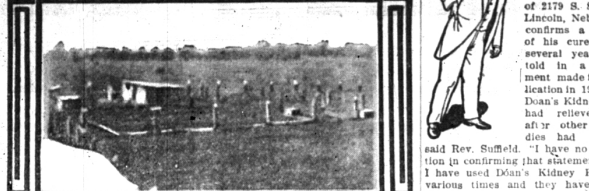
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Hog Cholera Investigations.

BY WAITER F. KING, M.S. BACTERIOLOGIST, KANSAS AGRICULTURAL COLLEGE



HOG YARDS FOR EXPERIMENTAL WORK.

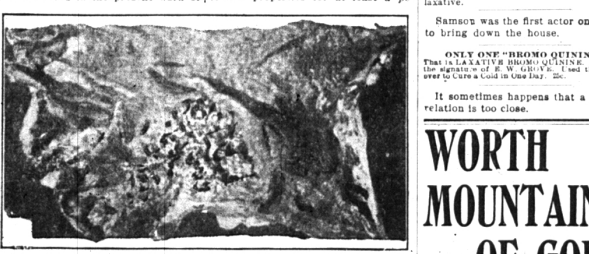
The suppression of the disease, hog cholera, a problem which is recognized of one of great importance to the agricultural interests of the United States, has received considerable attention during the last 20 years. At the present time few problems are as intimately associated with the agricultural economy as that which is related to the practical eradication of this animal disease.

In 1885 Dr. Theobald Smith and Dr. D. E. Stanton isolated Bacillus cholerae and described that organism as the specific cause of hog cholera. Since that time a continuous line of investigation has been conducted by the Bureau of Animal Industry, United States Department of Agriculture, for the purpose of discovering some protective inoculation or treatment against the disease. During the past few years several investigators, both in Europe and



Ulcers in Caecum of Hog.

America, have been actively engaged in this study. In 1901 the Bureau of Animal Industry published a preliminary report in which it was stated that it was possible to transmit hog cholera to healthy swine by injecting the filtered serum of hogs suffering from cholera. Bacteriological examination proved the absence in this filtered material of the cholera virus or other bacteria capable of growing on ordinary culture media. Since the appearance of the above report the investigations of the Bureau of Animal Industry, as well as the results of extensive work in other laboratories, have confirmed the belief that Bacillus cholerae is not the specific cause of hog cholera, or, more cautiously stated, that Bacillus cholerae is not the etiologic factor in all forms of hog cholera.



Ulcers in Caecum of Another Diseased Hog.

Investigation and from those of other investigators the following conclusions were warranted: Bacillus cholerae is not the etiologic factor in all forms of hog cholera. Bacillus cholerae is possibly a variety of the common intestinal parasitic organism, Bacillus coli, commensal with the normal flora of the hog. The specific cause of the filterable virus of hog cholera appears to be some living organism, possibly of microscopic, possibly of a size capable of passing through a fine porcelain filter in some disintegrated state. The filterable virus of hog cholera is a virus which is not present in normal hogs but in the abdominal cavity of the rabbit in the coliform sac, according to the method used by Novacz and Roux in artificially cultivating the organism which they associate with contagious pleuropneumonia in cattle. The simultaneous method of vaccination is efficient but is not practical because of its expense and the possible danger attending its use. The ordinary laboratory and domesticated animals are not susceptible to the filterable virus of hog cholera. A virulent hog cholera serum exerts a toxic influence upon a healthy horse when injected intravenously. Norman hog cholera serum or virulent hog cholera serum does not appear to produce an anaphylactic reaction when injected intravenously into the horse. The two-hour horse serum (drawn from the horse two hours after the animal has received, intravenously, approximately 100 cc. of hog cholera virus) when injected subcutaneously into the healthy hog in small quantities, produces an acute form of the disease.

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