

VALUABLE SERUM FROM TAIL OF PIG

As recent news telegram from Washington says:

"Attendance upon a pig tail cutting carnival will be one of Secretary Wilson's summer vacation amusements. He left the city two days ago and after a rest at his home at Traer he will go to Ames, Iowa. That's where the pig tail cutting takes place at the agricultural college, the faculty of which had Mr. Wilson as a member when President McKinley called him away to become secretary of agriculture.

"The pigs that lose their tails at Ames will be heroes, for through their sacrifice the salvation of other dwellers in pigdom will be assured. Incidentally the cost of producing the pork that will enter into next year's supply of meat and meat food products will be reduced about \$15,000,000. Were there no meat trusts to keep up prices the possible benefit would be distributed among all the people of the United States.

"From the bleeding tails of the pigs collected at Ames will be produced the serum needed to immunize other pigs from attacks of hog cholera. There is no way to fight that disease except by taking blood from an animal that has withstood an attack of cholera. There is no way of getting that blood so easily as from the tail. In fact, that is the only way it can be done except by taking the life of the porker in the veins of which runs the immune blood.

Until a short time ago the loss caused by hog cholera was computed as part of the cost of producing pork. Dr. M. Dorset, one of the scientists of the bureau of animal industry, has and deserves the credit for discovering the virus by means of which the ravages of hog cholera may be greatly reduced. The method of obtaining it is the result of seven years' work. Before its discovery the animal loss by reason of the disease amounted to at least \$15,000,000.

Patent on Tail Cutting.

When the discovery was made, Secretary Wilson, pursuing the policy laid down by him several years ago, had a patent issued to Dr. Dorset, in his name, but with a right to free use by the people of the United States. The people of other countries, desiring to make or sell the hog cholera virus according to the Dorset method, must pay the young scientist any royalty he may demand. It is so easy to steal his method that, though millions may be saved by reason of its invention, he is not getting into the stoufferly rich class with any degree of celebrity.

The bug that causes hog cholera is so minute that it has never been caught, either under a microscope or a microscopic filter. There is a parasite that bears the name bacillus cholerae suis, but it is not the hog cholera bacillus, as supposed at the time it was discovered, roped and tied. Dorset found that swine contracted cholera without the presence of that parasite. He found also that it could be injected into a perfectly healthy animal and not cause the disease to appear. But he could not catch the one that did cause the damage.

Notwithstanding his failure as a hunter, he found that by injecting the serum made from the blood of a hog that had survived an attack of the disease an animal was rendered immune. He also found that by injecting the blood of an infected pig on one side and the serum on the other the period of immunity was greatly lengthened.

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Vaccination with this virus does not produce absolute immunity, but the percentage is so high that it comes nearly being perfect. The estimate of immunity is 97 per cent. Among hogs not immunized the death rate from the disease is about 75 per cent of every drove exposed to infection.

More Blood in a Pig's Tail.

After the discovery of the serum the great question was as to how it could be procured at a cost small enough to warrant its general use. During the experiments it was all right to sacrifice a whole animal. But after the experimental stage was passed it was obvious that it would make the remedy almost as expensive as the disease. Until the tail was thought of the problem of how to get blood of an immune looked as great as the original question. The vital organs and arteries of the hog lie deep. To cut down to them means death to the animal.

The tail was tried as a last resort. Nobody thought of it at first, for the reason that as a rule there are few blood vessels in the tail of an animal; so salvation did not appear to lie in that direction. But the tail of a pig differs from the caudal appendage of other animals. It has a full share of veins and arteries. The first trial convinced the scientists that the tail will bleed, and bleed plentifully, so the problem of a source of supply was easily solved.

The blood from one immune animal will supply serum for about 200 porkers. Four teaspoonfuls constitute a dose, if not mixed with the blood of a hog that has cholera. If that mixture can be made a smaller quantity will do. The mixing is done inside the hog without apparent discomfiture to him, as soon as the serum, injected into one side, comes into contact with the infected blood forced into the other. What happens inside is only a matter of conjecture.

BUSINESS TIDE IS LOWER.

Henry Clews Says Volume Is From 10 to 20 Per Cent Under 1907.

Henry Clews says of the volume of business in the country as compared to last year:

Business in general is running between 10 and 20 per cent below last year in volume, and in some cases the shrinkage is even greater, the iron trade, for instance, running less than 60 per cent of its capacity.

The lower range of prices established for many commodities also lessens the requirements for money. Happily these depressing elements are gradually passing away; and surely, if slowly, we are recovering from the disasters of 1907. The great expansion of our currency, however, has not received the attention it deserves.

According to the last statement issued by the treasury department the amount of circulation in the United States was \$3,045,000,000 or \$264,000,000 more than a year ago. This is a huge increase, and comes at a time when the supply of currency should contract rather than expand. Of this enormous circulation \$1,399,000,000 was in gold coin, bullion or certificates, which is \$219,500,000 more than on August 1, 1907.

Here is inflation of the most pronounced type, especially if the banks are to grant credit on the usual basis of 4 to 1 on gold. Where does this great pile of gold come from?

Well, the United States, in addition to an already large stock of the precious metal, is producing annually at the rate of \$100,000,000 and over. Last fall we imported more than \$100,000,000, of which we returned only about half.

LUMBER TRADE BETTER.

Business of Perry Mill Shows Heavy Increase.

The Grand Ronde Lumber company at Perry has within the past two weeks received larger orders for lumber than at any similar period in the past several years, says the La Grande Star. The shipments to eastern markets are now averaging four cars per day. This includes one car of fruit boxes for Colorado orchards. The company has a contract to supply 150 acreloads of these boxes and this order is now about half filled.

In addition to this demand from the east the company is also supplying several carloads for the local fruit-growers.

Owing to the recent increase in the demand for lumber the Perry company expects a much longer run this year than usual. From present prospects the mills will be kept running up to the first of November. The supply of logs at the mill pond is holding out well and is being kept replenished by the logging trains which make daily trips and deliver from 10 to 12 cars of logs per day.

There is now a very large accumulation of lumber at the Perry yards—larger than in many years heretofore. The estimated amount of lumber of all kinds now on hand is 14,000,000 feet.

TYPHOID IN LUMBER CAMPS.

Palmer Lumber Company's Men on Looking Glass Are Stricken.

A typhoid fever epidemic has broken out in the George Palmer lumber camps on the Looking Glass, says the La Grande Observer. Several victims of the disease are now in the Grande Ronde hospital, and though not critically ill, they have such attacks of the epidemic that they are seriously ill.

The disease is not present at the camps in its most virulent form, but it is sufficient to deem a trip of Doctor Bacon to the camps necessary. The doctor went to the camps this morning, intending to combine business with pleasure, and while fishing in that section of the country he will also look into the camp's sickness.

Every effort is being made by the company to stamp out the trouble before it gets too strong a hold on the men working there. In fact it is already under control and it is not believed there will be additional cases.

Baker's Carnegie Library.

When the bids for the new Carnegie library were opened last night it was found that none of them would come within the amount which Mr. Carnegie has donated, and so a special meeting was called for this afternoon to revise the plans and bring the cost of construction within the limits, says the Baker City Herald. The lowest bids were those of C. W. Baldwin of \$22,485 for the building complete without heating and plumbing, and J. J. Gleason of \$2578 for the heating and plumbing, bringing the total cost to \$25,063.

Read the East Oregonian.

TEACHERS MEET AT BAKER.

Eastern Oregon Division to Hold a Convention in November.

With much satisfaction this city will entertain the eastern division of the Oregon Educational association this year, says the Baker City Herald.

While the session proper will not be held until November the executive committee holds a meeting in this city on August 29 for the purpose of making arrangements, outlining a program and choosing men of national repute who will address the teachers when they meet in the fall.

The executive committee is composed of State Superintendent J. H. Ackerman, J. S. Landers, superintendent of Pendleton schools; E. B. Conklin, superintendent of Ontario schools; J. A. Churchill, superintendent of Baker schools; E. E. Bragg, county superintendent of Union county, and J. F. Smith, county superintendent of Baker county, who is president of the association.

Circus Train Wrecked.

Eight men belonging to the cooking gang of the Barnum and Bailey circus were severely injured, two probably fatally, when spreading rails caused four menagerie cars in the first section of the train to leave the tracks of the Great Northern eight miles south of New Westminster at 4 o'clock Monday afternoon.

Boy Commits Suicide.

While suffering from an attack of typhoid fever Walter Hooper, aged 20, son of Miles T. Hooper, living near Pullman, Wash., shot himself in the head, killing himself instantly.

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" Omaha	- 30.00	" Cincinnati	- 42.20
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" St. Louis	35.50	" New York	- 55.00
" Chicago	38.00		

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