

Mr. Vanderbilt's Coaching Run to Brighton on the Road to Epsom from Old Malden, England.

The Palisade Worm.

"The Palisade Worm (Strongylus Armatus), A Troublesome Parasite of the Horse.' subject of a press bulletin sent out in February, 1909, by the Kansas State Agricultural College, over the name of F. S. Schoenleber, Veterinarian. We hesitated to publish the article, since our veterinary editor assures us that he knows of none of this pest in the Dominion. However, as it is possible the parasite may affect our horses at any time, or, in fact, may be present already, we have concluded that a warning and information might serve a useful purpose

"During the last two years, this parasite has become very generally distributed over all parts of Kansas, due to the excessive moisture and flood conditions. It has caused the loss of a considerable number of horses in different localities, and in some instances killed all the horses on a farm.

Description of the Parasite.—Thick at its head end, it tapers backwards, ending in a blunt point; its mouth is round, open, and furnished with several hard rings, of which the outer one bears six short, blunt, teeth-like projections, and the inner-most a row of closely-set, pointed teeth. The fe-breaks have been observed, on careful examina-winners could be mentioned." He argues that the male, from \(\frac{3}{4} \) to \(2 \) inches long, has a blunt, pointed tail; but the male, \(\frac{3}{4} \) to \(1 \) inches in length, has (arteries leading to the internal organs, the favor-for exhibition adds to its growth, and thus two lateral projections, joined by a rudimentary, ite location of these parasites) have been found to "renders it sufficiently matured and strong to central lobe. This minute description is given in order to distinguish it from the strongylus tetracanthus, a somewhat lighter-colored and smaller worm, which it resembles in many respects, and which is found in the intestines only, either free or attached to the intestinal wall.

"Life-history.-The worms are found in the The mature horse in two periods of existence. worms are usually found attached to the mucous membrane of the intestinal wall of the large intestine-caecum and colon-with the head sunk deep for the purpose of sucking blood, which gives them the brown or red color. The immature are found sometimes in the same organs, in a small capsule or covering, in small pellets of manure, in cavities or cysts varying in size from a pinhead to that of a hazelnut, in the walls of the intestines, and also in the arteries and other

"The egg being laid in the intestinal canal of does not hatch until a few days after it reaches the external world. If conditions are suitable in the way of moisture and temperature, the worm may live for several months in this stage in damp places, such as fodder, pasture, or stagnant water. It has become quite prevalent the last year in pastures and meadows subject to overflow from creeks or washings from infected areas. In this stage the worms are taken into the system of the horse their way into the mucous membrane and encyst themselves. Should they find a blood-vessel in the circulatory system of the horse, through which

pressure over the loins. They have been known to cause paralysis.

"When found in the brain, an animal, when working, suddenly begins to stagger, the eyes become fixed, and the horse shows many of the symptoms of 'blind staggers.

'When the large arteries of the abdomen are affected-and this is their favorite location in the circulatory system-the animal is frequently subject to colic, which often results in death. This is also the case when found in great numbers in the intestine. It has been estimated that in some localities as high as 90 per cent. of cases of colic are caused by this parasite.

"Cause of Death.—From a thorough investigation of a great many cases, both before and after death, the conclusions are drawn that the parasite evolves a poisonous substance (toxine), which in many instances stupefies the brain or parts of the nervous system of the horse, and in that way causes coma, paralysis, and death of the animal.

"In a great many post-mortems held at the clinic and in the dissecting room of the Veterinary Department of the Kansas State Agricultural Col-

contain enlargements or aneurisms caused by this parasite, which frequently contain the living parasite itself. In a post-mortem recently held upon a six-months suckling colt, a large aneurism of the anterior mesentric artery was found, containing a large number of the living worms.

Treatment is mostly preventive. Thoroughly inspecting water supply, to see that there are no parasites present in the drinking water. Keep the horses from all stagnant ponds. All surface wells should be inspected. Hay and fodder from swampy lands are to be looked upon as suspicious. Pastures which are subject to overflow and seepage should be avoided. Medicinal treatment consists of a prolonged, careful use of some of the essential oils or other vermifuges. The ordinary spirits of turpentine has proved a fairly good common remedy. An ordinary animal will stand two ounces of turpentine given in a pint to a quart of raw linseed oil, thoroughly mixed. If the animal is badly affected, the above dose may be given night and morning for two or three days, then omit for a week or two, and repeat. remedy should be discontinued as soon as the animal shows signs of irritation of the kidneys. Some horses are more sensitive in this respect than others. Two to four doses may be given every two or three months to expel the worms from the intestinal tract. If possible, the whole herd should be placed under treatment, under the direction of a competent veterinarian as soon as the parasite is found in the fæces, or their presence is suspected.'

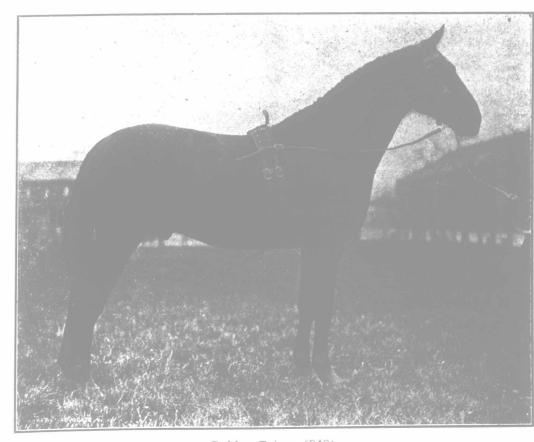
Awaiting Another Reply.

At a recent meeting of the Council of the Clydesdale Horse Society of Great Britain and Ireland, a letter, dated 23rd March, 1910, was received from the Canadian Clydesdale Association, recording the following resolution passed "at a meeting of a full board," on 4th February: "That this board have again considered their action of 29th October, 1909, in reference to refusing to cancel the registration of a stallion imported by Messrs. Smith & Richardson as Sir Henry (13200), reaffirm their decision of that date, and hereby authorize the accountant of the Canadian National Records to communicate with the Council of the Clydesdale Horse Society of Great Britain and Ireland to this effect.

The secretary read the text of a reply sent by him to this communication. The Council approved of the reply, and resolved to await the answer, if any, from the Canadian Association, before deciding what further action they would take in the matter

Breeding Two-year-old Fillies.

Discussing that perennial topic, whether it is wise to breed two-year-old fillies, an English writer contends that Shire fillies which have been thoroughly well fed and cared for, "may be put to the stud at two years old, with very satisfac-



Golden Prince (940). First and Gold Medal, Royal Dublin Show, 1910. Irish Hunter stallion.