

Some helminthic parasites recovered from domesticated animals (excluding equines) in Panama. A. O. FOSTER, Gorgas Memorial Laboratory, Panama, R. P.

Of the helminths infecting domesticated animals in Panama, only those from equines have been reported with a degree of completeness (Foster, 1936). It has therefore seemed desirable to record the following species which the author has recovered from time to time during recent years from other domesticated animals:

FOWL

Raillietina echinobothrida, *Amoebotocania sphenoides*, **Hymenolepis* sp., **Ascaridia galli*, *Heterakis gallinae*, *Subalura brumpti*, *Cheilospirura hamulosa*, *Dispharynx spiralis*, *Strongyloides avium*, *Capillaria dubia*.

SHEEP

Paramphistomum cervi, *Oesophagostomum columbianum*, *Syngamus* sp.

GOAT

Oesophagostomum columbianum, *O. venulosum*.

CATTLE

Fasciola hepatica, *Paramphistomum cervi*, *Moniezia* sp., **Cysticercus bovis*, *Mecistocirrus digitatus*, **Setavia cervi*.

SWINE

**Cysticercus cellulosae*, *Ascaris lumbricoides suis*, **Oesophagostomum dentatum*, **Stephanurus dentatus*, *Necator americanus swillus*, **Hyostrongylus rubidus*, *Metastrongylus salmi*, *Choerostongylus pudendotectus*, **Ascarops strongylina*, **Physocephalus sexalatus*, **Macracanthorhynchus hirudinaceus*.

DOG

Dipylidium caninum, **Toxocara canis*, **Ancylostoma caninum*, *Dirofilaria immitis*.

CAT

Diphyllobothrium mansonii, *Dipylidium caninum*, *Toxocara mystax*, *Contracaecum* sp., *Ancylostoma caninum*, *Physaloptera praepatialis*, *P. pacitae* (?).

In the above list, the parasites which are starred (*) were observed by Hall (1928) during his expedition to Panama under the auspices of the Rockefeller Foundation. The others are apparently recorded for the first time from this locality. While the list is by no means complete and is not in any sense the result of an intensive survey, it is probable, nevertheless, that the circumstances under which these parasites were obtained make this a record of the more conspicuous and perhaps more economically important parasites of their respective hosts in this region.

REFERENCES CITED

- FOSTER, A. O. 1936. Parasitic worms of equines in Panama. Proc. Helm. Soc. Wash. 3: 59 & 60.
 HALL, MAURICE, C. 1928. Parasitological and other observations in Central America. Cornell Vet. 18(1): 1-18.