

STUDY REPORTS

1. Title : Serological Classification and Detection of Leptospirosis in Thailand.

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Objective The objective of this study is to determine the serological prevalence of leptospiral agglutinins in domestic animals and humans in Thailand according to provinces. The study was terminated the 30th of June 1967.

Description Single blood samples from domestic animals were collected by field teams of the Department of Livestock Development, Ministry of Agriculture. The sera were separated in the field by clot extraction and shipped to Bangkok with either wet or dry ice as a refrigerant. Other departments submitted paired human sera from F.U.O. studies to be tested for leptospiral agglutinins. Fourfold serial dilutions were made and tested by the microscopic agglutination-lysis test utilizing eighteen different live diagnostic antigens.

Progress During the report period 294 buffalo sera were tested. Sixty-five or 29.68% of them had titers of 1:25 or greater. Eighty-four cattle sera were tested and 12 had titers of 1:25 or greater. Sixty-nine human sera were tested and 15 or 21.74% had titers of 1:25 or greater, all but 3 of the human sera having agglutinins were higher than 1:100.

Summary The Department of Livestock Development has decided to maintain a diagnostic facility for the diagnosis of Leptospirosis. It is felt that further survey type work of the nature of previous studies would be of little value in the absence of thorough epidemiological and ecological studies of this disease in Thailand.

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