

the effluent may be tested by its effects on the health of fish. The Board of Agriculture has two laboratories which are registered for the performance of experiments having for their object the detection and study of the diseases of animals. In other places experiments were made on behalf of the Home Office, the War Office, the Local Government Board, the Board of Agriculture and Fisheries, the Metropolitan Asylums Board, the Royal Commission on Sewage Disposal, the Royal Commission on Tuberculosis, and the Sleeping Sickness Committee of the Royal Society. Fifty-one licences returned over 8 000 experiments performed for Government Departments, County Councils, Municipal Corporations or other Public Health Authorities; 2 825 experiments were performed by two licensees for the Royal Commission on Tuberculosis, and twelve licensees performed nearly 4,600 experiments for the preparation and testing of antitoxic serums and vaccines and for the testing and standardizing of drugs. During the year the usual inspections of registered places were made by Professor Thane and Sir James Russell. They saw numerous animals under experiment, both of those coming into Table IV (A) and of those coming into Table IV (B); they everywhere found the animals suitably lodged and well cared for, and the licensees attentive to the requirements of the Act, as well as to the conditions appended to their licences by the Secretary of State. The irregularities which occurred during the year were not of a serious character, and all arose from misunderstanding or inadvertence with respect to the extent or application of certificates. They were as follows:

One licensee performed three inoculation experiments in excess of the number for which the certificate had been given. In two instances the licensee performed experiments on animals (not cats or dogs) other than those for which the certificate had been given.

Two licensees holding certificates given for inoculations made use of other procedures, in one case feeding, in the other exposure to noxious vapours, which were not indicated in their certificates.

One licensee holding Certificate A, which dispenses entirely with the use of anaesthetics, performed inoculations on anaesthetized animals. For this the licensee should have obtained Certificate B which is necessary when an animal under experiment is to be allowed to recover from the anaesthetic which has been administered.

By direction of the Secretary of State an appropriate caution was addressed to each of these licensees.

#### IRELAND.

Sir W. Thornley Stoker, Inspector for Ireland, states that nine registered places were in existence. Fourteen licences were in force in the year; of these one lapsed, five expired but were extended, and three were new licences.

The certificates in existence or allowed were:

|    |                 |
|----|-----------------|
| A  | to 10 licensees |
| B  | " 10 "          |
| C  | " 3 "           |
| E  | " 3 "           |
| EE | " 3 "           |
| F  | " 1 licensee    |

Of these, nine were new certificates, namely, six of A and one each of B, E, and EE. Two certificates (A and B) lapsed.

The experiments performed were 158 in number: 4 being under licence alone, and 154 under certificates. Ten licensees performed experiments. Fourteen licensees held thirty certificates, of whom ten performed experiments, namely:

|                     |     |     |     |     |     |
|---------------------|-----|-----|-----|-----|-----|
| Under Certificate A | ... | ... | ... | ... | 133 |
| " " B               | ... | ... | ... | ... | 10  |
| " " C               | ... | ... | ... | ... | 11  |

The animals experimented on were:

|             |     |     |     |     |    |
|-------------|-----|-----|-----|-----|----|
| Mice        | ... | ... | ... | ... | 57 |
| Guinea-pigs | ... | ... | ... | ... | 50 |
| Rabbits     | ... | ... | ... | ... | 45 |
| Dogs        | ... | ... | ... | ... | 3  |
| Goats       | ... | ... | ... | ... | 2  |
| Oat         | ... | ... | ... | ... | 1  |

The experiments were physiological, pathological, and in two instances therapeutical. Eleven were for the purpose of demonstrations of the phenomena of circula-

tion, respiration, cardiac control, and secretion. The rest were inoculations for diagnosis, the study of tubercle, typhoid fever, cholera, streptococcal infections, effects of x rays, identifications of blood stains, the treatment of goitre, injection by a trypanosome found in blood of bats to study the possibility of infection. Studies were made of gastric movements, of the functions of the pancreas, and of kidney secretion. No abuses of the Act or irregularities in its application were found in Ireland during the year, and Sir Thornley Stoker expresses the opinion that all work done was sincere, well intentioned, and in conformity with the conditions imposed on the various licensees.

### LYNN THOMAS AND SKYRME FUND.

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