

Watts, F., Manurial Experiments with *Cacao* in Dominica. (West Indian Bulletin. Vol. VII. p. 201—212. 1906.)

In the scheme of experiments some $1\frac{3}{4}$ acres, bearing cacao trees (*Theobroma Cacao*) about ten years old, were divided into five plots, which were treated as follows from 1900 onwards:

- A. No manure,
- B. Basic phosphate, 4 cwt per acre; Sulphate of Potash, $1\frac{1}{2}$ cwt per acre,
- C. Dried blood, 4 cwt per acre,
- D. Basic phosphate, 4 cwt per acre, Sulphate of Potash $1\frac{1}{2}$ cwt per acre; Dried Blood, 4 cwt per acre,
- E. Mulched with grass and leaves.

The individual trees were thus manured year after year in the same way. Taking the last year, the net financial result was, plot B, gave a gain on manuring of £ 4.4.3 per acre, plot C, a gain of £ 4.8.0 per acre, plot D, a gain of £ 8.0.4 per acre. Still more striking however was the result obtained on the fifth plot E, where the gain on manuring was not less than £ 20.16.6 per acre. By gain on manuring is meant the profit from the larger crop after deducting the cost of the manure.

The materials employed for mulching consisted of lawn mowings and the fallen leaves of various trees. The suggestion is made that grass &c from uncultivated land might be used for mulching cacao, these results shewing the importance of adding humus in tropical agriculture.

W. G. Freeman.

Personalnachrichten.

Mr. **A. A. Lawson** of Stanford Univ. (California) became Ass. in Bot. at Glasgow Univ.

Mr. **A. W. Hill** of Cambridge became Ass. Director of the Royal Gardens, Kew.

Mr. **R. P. Gregory** of St. John's Coll. has been appointed Lecturer in Bot. at the Cambridge Univ.

Dr. **P. Groom** has been appointed Lecturer in Bot. at the North London Polytechnic.

Mr. **A. M. Smith** of Emmanuel College became Senior Univ. Demonstrator in Bot. at St. John's College, Cambridge.

Ernannt: der ordentl. Prof. an der Univers. München: Dr. **K. Goebel** und der ordentl. Prof. an der techn. Hochschule Karlsruhe: Dr. **L. Klein** zu Geheimen Hofrathen. — Der Assistent am botanischen Garten zu Berlin: Dr. **R. Pilger** zum Docenten der Botanik an der technischen Hochschule in Berlin-Charlottenburg.

Habilitiert für Botanik an der Universität in Giessen: Dr. **W. Fr. Bruck**.

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