

QUARTAROLI, A. e G. MASONI, Sugli acidi liberi dei perfosfati minerali e d'ossa. (Staz. sperim. agrarie. Vol. XXXVIII. 1905. p. 492—502.)

Messungen der Affinitätskonstante verschiedener Phosphordüngemittel durch Rohrzuckerinversion bei 25° C. zeigten, dass in mineralischem Phosphordünger viel weniger freie Phosphorsäure vorhanden ist, als es die analytischen Methoden anzeigen, während im Knochenphosphat nur spurweise oder überhaupt keine freie Phosphorsäure vorkommt.  
E. Pantanelli.

STEWART, F. C., H. J. EUSTACE and F. A. SIRRINE, Potato spraying experiments in 1905. (New York [Geneva] Agric. Expt. Station Bull. CCLXXIX. p. 155—229. 1906.)

This gives the results of extensive spraying experiments with potato diseases in the year 1905, seventy different experiments being reported. In the 10 year experiments at Geneva the yield was increased 119<sup>1</sup>/<sub>3</sub> bushels per acre by five sprayings, while three gave an increase of 107 bushels. At Riverhead the gain respectively was 82 bushels and 31<sup>1</sup>/<sub>3</sub> bushels per acre. In thirteen „farmer's business experiments“ including 16<sup>2</sup>/<sub>3</sub> acres the gain due to spraying was 46<sup>1</sup>/<sub>2</sub> bushels per acre; the average cost of spraying was Dollar 4.25 per acre; the average cost of each spraying was 98 cents per acre; and the average net profit was Dollar 20.04 per acre. In fifty volunteer experiments including 407 acres there was an average gain of 59<sup>1</sup>/<sub>2</sub> bushels per acre. In 29 of these experiments the average cost of spraying was Dollar 4.57 per acre: the average cost of each spraying was 92 cents, and the average profit was Dollar 29.85 per acre. Soda Bordeaux is not as good as lime Bordeaux for potatoes. Paris green at the rate of 1—2 lbs. per acre and arsenite of soda at the rate of 1 quart stock solution (Kedyie formula) per 50 gals water are perfectly safe. No attention need be given the temperature of the Bordeaux mixture. The tendency is for spraying to decrease the rot of tubers; it always increases the yield of marketable tubers.

Perley Spaulding.

## Personalnachrichten.

Dr. Max Körnicke, Privatdozent der Botanik a. d. Univ. Bonn, erhielt für 1906/07 das Buitenzorg-Stipendium des Deutschen Reiches. Er hat seine Ausreise am 29. August angetreten.

Gestorben: Prof. Harry Marshall Ward, F. R. S. Sc. D., in Torquay, im 52. Lebensjahre. — Prof. Dr. C. A. J. A. Oudemans, in Arnhem, früher Prof. der Botanik in Amsterdam, im 80. Lebensjahre.

### Berichtigung.

Auf p. 192 ist zu lesen: Dr. V. Grafe für chemische Pflanzenphysiologie habilitiert an der Universität Wien, statt: an d. Univ. Berlin.

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