

EL FELAHA

(Farming — Cairo)

Vol. 36 No. 5

Sept. - Oct. 1956

Synopsis of Main Articles

NUTRITION FOR THE EGYPTIAN FARMER

by : Saad El Din Mostapha,

former chief Inspector of Nutrition, Ministry of Education.

The writer surveys the various food materials within easy reach of the common farmer & their nutritive value; & suggests the diets that can be given to a middle aged farmer throughout the days of the week. He hints to the necessity of combatting local diseases, the provision of good potable water & instruction in cleanliness.

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CULTIVATION OF PISTOCHE IN IRAQ

by : Iz El Dine Farag, Agir College, Cairo Univ.

The article gives a general description of the vinerias grown in Iraq, the methods of cultivation the preparation of the fruit for marketing & its various uses.

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FLAX CULTIVATION & INDUSTRIALIZATION IN EGYPT

by : Kamal El Din El Bialy

The agriculturol & industria. conditions of flax in Egypt were reviewed; and steps for advancement were suggested,

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THE BIOLOGY OF CERTAIN RACES OF THE SILK WORM

BOMBYX MORI L.

BY: Dr. Mohamed Hassan Hassanein. Associate Proffessor of Entomolgy Faculty of Agriculture, Ain Shams University.

It was observed that the larvae of the Striped Varo pupate after 37 days from emerging, the white Varo after 40 days and the two Japanese races after 45 days. The pupa period was 13 days for the striped Varo and two weeks for the other races. The cocoons wore weighed and measured to determine their volume and weight. It was found that the Bagdady is the biggest in size and weight and its reeling bave is greater than the other races. The volume of the different races were as follows, Bagdady 7.31, White Varo 5.92, Adrianople 5.19, Shi 4. 86. Striped Varo 4. 64, Ryonichi 4. 24 cubic centimeter. The weight of the dried cocoons from the races under investigations were: Bagdady 905 mg, Adrianople 782 mg, Shi 597 mg. Ryonichi 441 mg. The weight of chrysalis per 100 Grams of cortex were Ryonichi 126, Striped Varo 156, Shi 147, White Varo 144, Adrianople 139 and Bagdady 132. It was clearly show taht length, of the reelable bave is greater in largens cocoon of Bagdady but the percentage yfild of silk is greater in the small cocoons of Ryonichi.

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The Dilution effect on the solubility of soil phosphorus and fixation of added phosphates in relation to different solvents.

BY : HASSAN RAJAI and A. FOUAD EL KHOLI

Ph. D. (Agric.)

M. Sc. (Agric.)

Plant Nutrition Divs., Chemistry Section

This investigation was carried out to study the dilution effect of soil :
The results can be summarized as follow:

- 1 — The solubility of native soil phosphorus increased with the increase of the solvent.
 - 2 — The soil capacity of phosphate fixation increased as the solution : soil ratio increased.
 - 3 — The more phosphate added the more is the phosphate fixed.
 - 4 — Magnesium sulphate solution has the highest effect on extracting soil phosphates, and sodium sulphate is the next in effect.
 - 5 — Calcium salts solutions are considered to be ineffective as soil phosphate extractors.
 - 6 — Calcium salts, especially calcium sulphate, have the highest effect on phosphate fixation.
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SWEET POTATOE OUT-PRODUCTS

Dr. Mah. Abdel-Akher & Youssef Ghali

Maize, which is the main bread material for the common farmer, is at present the primary source of starch & other important industries. The author suggests its substitution by sweet potatoes to some extent, because it grows satisfactorily in sandy areas which do not grow maize. He also considers other products to be obtained from sweet potatoes, such as glucose, honey, alcohol & various chemical products & bread flour.