

EL FELAHA

(Farming — Cairo)

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Synopsis of Main Articles

PESTS OF GRAMINEOUS CROPS

by: M. H. Hassanein Ph. D. Faculty of Agric - El Shams

The biology and ecology of certain pests attacking grains and cereal crops are summarized and reviewed.

Insects attack throughout the growth of the crops and their injury are described.

The schedule of insecticide applications and farm practices for the control and combating insects on corn, wheat, barley and sugar cane are shown.

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MAIZE BREEDING

by : Dr. M. Adl el - Din Plant — Breeding Section, Ministry of Agriculture

The writer gave a review of the program followed by the Plant Breeding Section of the Egyptian Ministry of Agriculture since 1916 for improving maize production. The hybrid - corn overyielded the open pollinated varieties with at least 35%. This led to the adoption of a hybrid maize project since 1953; and the demand of the hybrid seed is great. Research work is now directed towards the reduction of the cost of producing the hybrid seed.

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THE EFFECT OF NEUTRAL SODIUM SALT ON CALCIUM CARBONATE SOLUBILITY AND SODIUM CARBONATE PRODUCTION

Dr. Amin A. Abdel-Ber, & Yehia Zaki

Faculty of Agriculture, Cairo University

Results showed that the production of Na_2CO_3 by CaCO_3 solution with neutral sodium salts (NaCl , Na_2SO_4 and NaNO_3) increased with concentration up to 2. N. At higher concentrations than 2.0N, the production of CO_3 ions decreased with NaCl , increased gradually with Na_2SO_4 , and remained constant with NaNO_3 . When Ca ions were present, even at the concentration of 100 p.p.m., no CO_3 ions were produced, except with Na_2SO_4 where 7.5 p.p.m. of CO_3 were still present. At higher concentrations Ca ions than 1000 p.p.m., the reverse reaction resulted in more production of CO_3 ions.