

- IVANOVA, E. V.: [Effect of phosphorus and iron content relationship in nutrient medium on oxidative exchange in beans.] In Russ. — Vest. Mosk. Univ., Ser. Biol. Pochvoved. **26** : 92 to 96, 1971.
- JACOBSON, L., OERTLI, J. J.: The relation between iron and chlorophyll contents in chlorotic sunflower leaves. — Plant Physiol. **31** : 199–204, 1956.
- JIRÁČEK, V., KANTA, J., VOTRUBA, I., KRYZÁNEK, R.: [Systematic analysis of basic types of phosphorus compounds in plant substrate.] In Czech. — Rostl. Výroba (Praha) **13** : 249–266, 1967.
- LAŠTŮVKA, Z., MINÁŘ, J.: [Water cultures of higher plants.] In Czech. — Fol. Fac. Sci. nat. Univ. Purk brunensis, : **81**–83, 1967.
- MACHOLD, O.: Einfluss der Ernährungsbedingungen auf den Zustand des Eisens in den Blättern, den Chlorophyllgehalt und die Katalase- sowie Peroxidaseaktivität. — Flora **159** : 1–25, 1968.
- MATHAN, K. K., AMBERGER, A.: Influence of iron on the uptake of phosphorus by maize. — Plant Soil **46** : 413, 1977.
- OLSEN, C.: Iron absorption and chlorosis in green plants. — Compt. rend. Trav. Lab. Carlsberg **21** : 15–32, 1935.
- PALÁTOVÁ, E., LAŠTŮVKA, Z.: Growth of maize plants in flowing medium with different levels of iron. — Biol. Plant. **16** : 241–249, 1974.
- PALÁTOVÁ, E., LAŠTŮVKA, Z.: Maize growth in flowing nutrient solution at two intensities of artificial illumination and under varying iron supply. — Scripta Fac. Sci. nat. UJEP brunensis, Biol. **1** (5) : 1–10, 1975.
- REDISKE, J. H., BIDDULPH, O.: The absorption and translocation of iron. — Plant Physiol. **28**: 576–593, 1953.
- ŠESTÁK, Z., ČATSKÝ, J.: Metody Studia Fotosyntetické Produkce Rostlin. [Methods of Studying Plant Photosynthetic Production.] — Academia, Praha 1966.
- TADANO, T.: Iron nutrition of rice plants. 4. Excess iron uptake as affected by the nutritional states of the plant. — J. Soil Sci. Manure Jap. **41** : 498–501, 1970.

BOOK REVIEW

ZHUCHENKO, A. A.: *EKOLOGICHESKAYA GENETIKA KUL'TURNYKH RASTENÍ (ADAPTATSIYA, REKOMBINOGENEZ, AGROBIOTSENOZ)*. [Ecological Genetics of Cultivated Plants (Adaptation, Recombinogenesis, Agrobiocenosis)]. — Shtiintsa, Kishinev 1980. 588 pp., 7.90 Rbl. (In Russian with English Summary.)

The objective of ecological genetics is to express processes such as plant adaptation, variability *etc.* in physiological, genetic, biochemical and molecular terms. This book is an important contribution to the field of ecological genetics in gathering the source material and basic concepts at a level accessible to both undergraduate and graduate students. The introductory chapters deal with the ecological and genetic problems of modern plant production. These are followed by chapters on plant adaptation, variability, inheritance and on the sources of genotypic variation and their role in plant production. The subsequent parts of the book describe modern methods which are used to increase the genotypic variability, *e.g.* methods of induction of chromosome aberrations, polyploidy, crossing-over, intercellular gene transfer and the methods of plant cultivation *in vitro* (cell, tissue, embryo, pollen, protoplast culture). The concluding chapters present an overview of the relation of plant adaptation of cultivated plants to plant breeding and productivity. The primary feature of the book is its emphasis on the unique methodology of genetic ecology. Each chapter ends with a summary of key concepts. At the end of the book is an extensive, up-to-date bibliography of pertinent articles and references, which may be useful to those not well familiar with the articles on genetic ecology published in Russian. The book is supplemented by an English summary of each chapter and by an English written "general conclusion".

T. GICHNER (Praha)