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**SCIENTIFIC PRINCIPLES  
OF OPTIMIZING THE MINERAL  
NUTRITION SYSTEM FOR CHICKPEA  
(*CICER ARIETINUM* L.) CULTIVATION  
IN THE SOUTHERN STEPPE  
OF UKRAINE**

**Monograph**



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This monograph provides a scientific rationale and establishes the specific features of grain yield formation in chickpea grown under rainfed conditions, depending on the applied nutrition system. A mineral nutrition system for chickpea has been developed for the conditions of the Southern Steppe of Ukraine, suitable for cultivation technologies incorporating elements of biologization or minimal mineral fertilizer input.

The practical value of the obtained results lies in the development and implementation of a nutrition system that ensures chickpea yields of 2.55 t/ha, a high protein content, and a profitability level of 120–130%. The incorporation of biologization elements into chickpea cultivation contributes to a 58.4% reduction in mineral fertilizer costs.

The publication is intended for students, postgraduate students, lecturers, researchers of agricultural institutions, and specialists of the agro-industrial sector.

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