

INSTITUTE OF HORTICULTURE
OF NAAS OF UKRAINE

HORTICULTURE

INTERDEPARTMENT SUBJECT SCIENTIFIC COLLECTION

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The collection contains articles that present the results of long-term research on the study of climate change and the impact of the latter, as well as soil indicators on the condition of fruit and berry crops. The results of selection and varietal research, in particular apple, pear, gooseberry, viburnum, lilac and Chinese callistephus, question of plant physiology, namely winter hardiness of new promising varieties and elite forms of pear and frost resistance of large-fruited cherry varieties, resistance of apricot and gooseberry varieties to diseases are covered in detail. The results of the assessment of the perspective of the resistance of the essential oil of aromatic substances from vegetable raw materials to common diseases of insecticidal, fungicidal and bactericidal action, the effectiveness of the use of microfertilizers in an intensive apple orchard, and the use of herbicides in the nursery are presented.

The question of growing technology and microclonal reproduction are separately considered, in particular, the optimal composition of the nutrient medium for the reproduction of clonal rootstocks of the plum group *in vitro* culture conditions, as well as the influence of stimulants on the rooting of mulberry cuttings. The results of the study of the mineral composition of actinidia fruits and the possibility of its introduction in the conditions of the Northern Steppe of the Black Sea Coast region are presented.

Economic and financial question were raised, in particular, the scope and trends of state financial support for the horticultural and viticultural industries of Ukraine, the state and prospects of apple production in raw orchards of Ukraine, and the sustainable development of horticulture and its model were analyzed. Generalized results of the study of regional biogeochemical features of fruit-growing zones of Ukraine.

For research workers, post graduate assistants, doctorants, teachers and students of higher educational agricultural institutions, fruit growing experts, amateur horticulturists.