

CONTENTS

	Page
Some Physiological Principles determining the Yield of Root Crops. F. L. Milthroe	1
Effect of Potassium on the Dry Matter Production of Sweet Potato. K. Fujise and Y. Tsuno	20
Discussion	30
The Dependence of Photosynthesis on Carbohydrate Sinks: Current Concepts.E. C. Humphries	34
The use of Rooted Leaves and Grafted Plants for the Study of Carbo- hydrate Metabolism in Sweet Potato L. A. Wilson	46
Discussion	58
Plant Nutrient Deficiencies and Related Tissue Composition of Tannia (<i>Xanthosoma Sagittifolium</i>) J. A. Spence, and N. Ahmad	61
Discussion	68
The Response of Taro (<i>Colocasia Esculenta</i> [L.] SCHOTT) to N, P, and K Fertilization under Upland and Lowland Conditions in Hawaii Ramon S. de la Pena and Donald Plucknett	70
The Influence of Fertilizer Ratios on Sweet Potato Yields and QualityGeorge Samuels	86
Discussion	94
The Influence of NPK Levels on the Growth and Tuber Development of Cassava in Tanks Arnold Krochmal and George Samuels	97
Chemical Assay of the Anthocyan Pigments in Sweet Potato C. E. Seaforth	103
Discussion	110

