

TABLE OF CONTENTS

Publications	i
List of Abbreviations	ii
I Introduction	1
II Seasonal development of genotypic differences in sugar beet (<i>Beta vulgaris</i> L.) and their interaction with water supply	10
III Impact of water supply on photosynthesis, water use and carbon isotope discrimination of sugar beet genotypes	29
IV Solute accumulation as a cause for quality losses in sugar beet submitted to continuous and temporary drought stress	47
V Summary	63
VI References	65