

CONTENTS

I-Introduction	1
II-Review of literature.....	2
III-Materials and Methods	38
IV-Results and Discussion.....	48
IV-1-First Experiment : Effect of cultivar, fertilization level and their interaction on vegetative growth, tuber yield chemical composition and quality as well as cooking quality:	48
<i>1-1 vegetative Growth characteristics.....</i>	<i>48</i>
<i>1-2-a- Chemical Constituents of plant foliage</i>	<i>57</i>
<i>1-3- Tuber yield and its components.....</i>	<i>67</i>
<i>1-4- Chemical composition of tubers.....</i>	<i>92</i>
<i>1-5- Cooking quality.....</i>	<i>107</i>
IV-2- Second Experiment : Effect of Cultivar, planting method and spacing on vegetative growth, tuber yield and quality.	117
<i>2-1-Vegetative growth characteristics</i>	<i>117</i>
<i>2-2-Tuber yield and its components.....</i>	<i>134</i>
<i>2-3 Tuber size percentage</i>	<i>162</i>
V- Summary And Conclusion.....	167
VI-Literature cited.	184
VII- Arabic summary	