

CONTENTS

	<u>Page</u>
I. INTRODUCTION	1
II. REVIEW OF LITERATURE	3
III. MATERIALS AND METHODS	27
IV. RESULTS AND DISCUSSION	38
IV.1. <u>First Experiment</u> :	
<u>Effect of some commercial folifertilizers i.e.</u> <u>Irral, Bayfolan and Folifertile on plant growth,</u> <u>chemical composition, yield and quality of</u> <u>artichoke flower heads</u>	38
1.1. Plant growth characteristics	38
1.2. Chemical composition of leaves	40
1.3. Early yield of artichoke flower heads	48
1.4. Total yield of artichoke flower heads	52
1.5. Physical characteristics of inflorescence (flower heads)	54
1.6. Chemical composition of the edible part (receptacle)	56
IV.2. <u>Second Experiment</u> :	
<u>Effect of some micronutrients i.e., Fe, Mn, and</u> <u>Zn on plant growth, chemical composition, yield and</u> <u>quality of artichoke flower heads.</u>	61
2.1. Plant growth characteristics	61
2.2. Chemical composition of leaves	63
2.3. Early yield of artichoke flower heads	69
2.4. Total yield of artichoke flower heads	72
2.5. Physical characteristics of inflorescence (flower heads)	75
2.6. Chemical composition of the edible part(receptacle)	77

IV.3. Third Experiment

Effect of some growth regulators i.e. GA₂,

CCC and NAA on plant growth, chemical

composition, yield and quality of artichoke

flower heads 82

3.1. Plant growth characteristics 82

3.2. Chemical composition of leaves 87

3.3. Early yield of artichoke flower heads 96

3.4. Total yield of artichoke flower heads 101

3.5. Physical characteristics of inflorescence (flower
heads) 105

3.6. Chemical composition of the edible part(receptacle) 108

V. SUMMARY AND CONCLUSION 115

VI. LITERATURE CITED 123

ARABIC SUMMARY